National/Panasonic Japan

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The files are in Adobe Acrobat Format To view them you will need

Simplified

Omnivision



Video Cassette Recorder

PV-7664 PV-7664-K



Please use this manual together with the Service Manual for Order No. MKS9702M305 Model No. PV-7662.

SPECIFICATIONS

ITEM	SPECIFICATION	ITEM	SPECIFICATION		
Power	Source: 120V AC ± 10%, 60 Hz ± 0.5%	RF Out	CH 3/CH 4 switchable 72 dB μ (open voltage) 75 Ω unbalanced		
r owei	Consumption: Approx. 23 watts (Power on), Approx. 7 watts (Power off)				
	Head: 4 rotary heads helical scanning system		Broadcast Channels: VHF 2 ~ 13, UHF 14 ~ 69 CATV Channels: Midband A through I (14 ~ 22)		
Video	Input Level: VIDEO IN Jack (Phono type) 1.0 Vp-p 75Ω unbalanced Output Level: VIDEO OUT Jack (Phono type) 1.0 Vp-p 75Ω unbalanced Signal-to-Noise Ratio: SP: more than 43 dB LP/SLP: more than 41 dB Horizontal Resolution: Color/Monochrome: more than 230 lines	Tuner	Superband J through W (23 ~ 36) Hyperband AA ~ EEE (37 ~ 64) Lowband A-5 ~ A-1 (95 ~ 99) Special CATV channel 5A (01) Ultraband 65 ~ 94, 100 ~ 125		
	Head: Normal Mono: 1 stationary head Hi-Fi Stereo: 2 rotary heads	Video - Signal	EIA Standard (525 lines, 60 fields) NTSC Color Signal		
	Input Level: AUDIO IN Jack (Phono type) -10 dBv $50k\Omega$ unbalanced Output Level: AUDIO OUT Jack (Phono type) -8 dBv $1k\Omega$ unbalanced	Jigilai	SP: 1-5/16 i.p.s (33.35 mm/sec), LP: 21/32 i.p.s (16.67 mm/sec),		
	Frequency Response: Normal Mono: SP: 100 Hz ~ 8 kHz LP: 100 Hz ~ 6 kHz SLP: 100 Hz ~ 5 kHz Hi-Fi Stereo: SP/LP/SLP: 20 Hz ~ 20 kHz	Tape Speed	SLP: 7/16 i.p.s (11.12 mm/sec) Record/Playback Time: 8 Hrs with 160 min. type tape used in SLP mode FF/REW Time: Less than 3 min. (120 min. type tape)		
Audio	Signal-to-Noise Ratio: Normal Mono: SP: more than 42 dB LP/SLP: more than 40 dB	Tape Format	Tape width 1/2" (12.7 mm) high density tape		
	Hi-Fi Stereo: SP/LP/SLP: more than 60 dB	Operating	41°F(5°C) ~ 104°F(40°C) (Temperature)		
	Wow and Flutter: Normal Mono: SP: Less than 0.2% WRMS	Condition	10% ~ 75% (Humidity)		
	LP: Less than 0.3% WRMS SLP: Less than 0.4% WRMS Hi-Fi Stereo: Less than 0.015% WRMS	Dimension	16-15/16"(430 mm) (W) X 3-7/8"(98 mm) (H) X 11-13/16"(300 mm) (D)		
		Weight	7.7 lbs. (3.5 kg)		

Weight and dimensions shown are approximate. Specifications are subject to change without notice.



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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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DIFFERENCES BETWEEN PV-7664 and PV-7662

Model PV-7664 is similar to model PV-7662.

Use this Service Manual MKS9704M315 when servicing this model.

COMPARISON CHART BETWEEN PV-7664 & PV-7662

MECHANICAL REPLACEMENT PARTS LIST

Page	Ref.	Section	Pcs/	PV-7662 ->	PV-7664	
No.	No.	No.	Set	Part No.	Part No.	Part Name
7-2	71	4	1	VYPS6730	VYPS6806	FRONT PANEL ASS'Y
	105	4	0→1		VGTS0711	SHUTTLE DIAL
7-2	121	5	1	VPGS3820	VPGS3852	PACKING CASE, PAPER
7-2	122	5	1	VQFS3323	VQFS3324	FAN BAG
7-2	123	5	1	VSQS1497	VSQS1498	INFRARED REMOTE CONTROL UNIT

ELECTRICAL REPLACEMENT PARTS LIST

Page	Ref.	Pcs/	PV-7662	PV-7664		
No.	No.	Set	Part No.	Part No.	Part Name	
7-3	E1	1	VEPS6028HA	VEPS6032HA	MAIN C.B.A.	
	E2	0→1		VEPS3054A	ADVANCE C.B.A.	
7-3	E4	1	VEPS8025B	VEPS8029A	OPERATION C.B.A.	

DIFFERENCES BETWEEN PV-7664-K and PV-7662

Model PV-7664-K is similar to model PV-7662.

Use this Service Manual MKS9704M315 when servicing this model.

COMPARISON CHART BETWEEN PV-7664-K & PV-7662

MECHANICAL REPLACEMENT PARTS LIST

Page	Ref.	Section	Pcs/	PV-7662 ->	PV-7664-K	
No.	No.	No.	Set	Part No.	Part No.	Part Name
7-2	32	1	1→0	VXLS1073		CLEANER ARM UNIT
7-2	33	1	1→0	VDPS0269		CLEANER ROLLER
7-2	71	4	1	VYPS6730	VYPS6806	FRONT PANEL ASS'Y
	105	4	0→1		VGTS0711	SHUTTLE DIAL
7-2	121	5	1	VPGS3820	VPGS3853	PACKING CASE, PAPER
7-2	122	5	1	VQFS3323	VQFS3360	FAN BAG
7-2	123	5	1	VSQS1497	VSQS1498	INFRARED REMOTE CONTROL UNIT

ELECTRICAL REPLACEMENT PARTS LIST

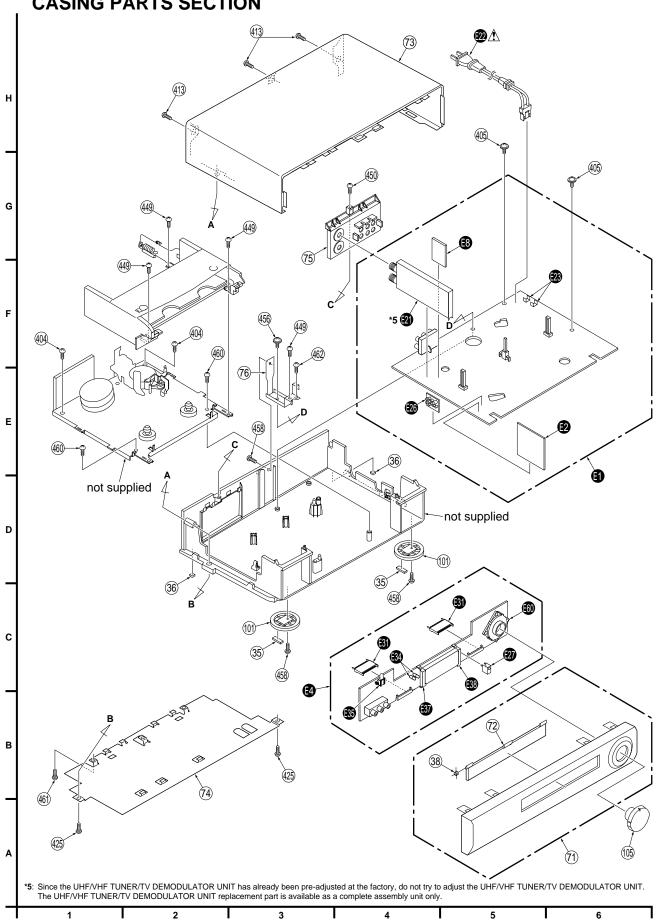
Page	Ref.	Pcs/	PV-7662 ->	PV-7664-K	
No.	No.	Set	Part No.	Part No.	Part Name
7-3	E1	1	VEPS6028HA	VEPS6032HA	MAIN C.B.A.
	E2	0→1		VEPS3054A	ADVANCE C.B.A.
7-3	E4	1	VEPS8025B	VEPS8029A	OPERATION C.B.A.

EXPLODED VIEW

4 CHASSIS FRAME AND CASING PARTS SECTION

IMPORTANT SAFETY NOTICE

COMPONENTS IDENTIFIED BY THE SIGN A HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.



REPLACEMENT PARTS LIST

BEFORE REPLACING PARTS, READ THE FOLLOWING:

Use only original replacement parts:
 To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list.

of these components, use only the specified parts. 3. SPECIAL NOTE

All integrated circuits and many other semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "ELECTROSTATICALLY SENSITIVE (ES) DEVICES" section of this service manual.

 Parts with no Ref. No. in "EXPLODED VIEW" are not supplied. And some Ref. No. will be skipped. Be sure to make your orders of replacement parts according to the parts list.

- Parts different in shape or size may be used. However, only interchangeable parts will be supplied as service replacement parts.
- The parts which "AKEI" is indicated in Remarks column will be supplied from AKEI factory.

Electrical Replacement Notes

- Item numbers with capital letter E (Example: E1, E2,...) in the Ref. No. column are shown in the exploded views. The E item numbers are also printed on the same page at the top of the column.
- The parts with "■" mark are supplied individually or as a unit. The parts with "▲" mark are supplied individually or as a unit, and are included in "■" parts listed directly above in the parts list.
- 3. Unless otherwise specified:

All resistors are in ohms, 1/4W, +/-5%, carbon,

K = 1,000 ohm, M = 1,000 kohm.

All capacitors are in microfarads, P = micromicrofarad, +/-10%.

All coils are in microhenries, M = 1,000 microhenry, +/-10%.

4. Abbreviation

RTL: Retention Time Limited

This indicates that the retention time is limited for this item. After the discontinuation of this item in production, it will no longer be available.

NR: Non Repairable Board Ass'y MGF CHIP: Metal Glaze Film Chip

C CHIP: Ceramic Chip

COMPLX CMP: Complex Component W FLMPRF: Wirewound Flameproof C.B.A.: Circuit Board Assembly

P.C.B.: Printed Circuit Board

E.S.D.: Electrostatically Sensitive Devices

5. SERVICE OF CHIP PÁRTS

When servicing chip parts, please use a soldering iron of less than 30 watts. Refer to "IC, TRANSISTOR AND CHIP PART INFORMATION" page.

- The parts with "●" are 0 ohm resistor. When replacing, a wire can be substituted for a 0 ohm resistor.
- IC6301, IC6401 replacement note: The manufacturing part number is TMP47C215NF831 or UPD17217GT-538. However, to order the part, use service order part number T47C215NF831 or D17217GT-538.

ELECTRICAL REPLACEMENT PARTS LIST

(E1, E2, E4)

(E1, E2, E4	*)		
Ref. No.	Part No.	Part Name	Remarks
		PRINTED CIRCUIT BOARD ASS	EMBLY
E1	VEPS6032HA	MAIN C.B.A.	■ E.S.D. RTL
E2	VEPS3054A	ADVANCE C.B.A.	▲ E.S.D. RTL
E4	VEPS8029A	OPERATION C.B.A.	■ E.S.D. RTL
		MAIN C.B.A.	
		INTEGRATED CIRCUITS	Δ
IC1001	PS2501-1-X	IC, LINEAR ERROR V. DET	<u>A</u>
	OR 0N3131-R.KT	IC, LINEAR ERROR V. DET	<u>A</u>
TC2004	OR 0N3131-S.KT AN3475FBP	IC, LINEAR ERROR V. DET	<u>A</u>
IC3001		IC, LINEAR VIDEO/AUDIO PROCESS	F.C.D.
IC3101	MN3885S	IC, CCD 1H DELAY	E.S.D.
IC3201	MN3890S	IC, CCD 1H DELAY	E.S.D.
IC3301	LC74725M9630	IC, LOGIC CHARACTER GENERATOR	E.S.D.
IC4201	AN3962FB-V	IC, LINEAR Hi-Fi AUDIO PROCESS	
IC4351	M62302FP	IC, LINEAR LEVEL METER CONTROL	
IC6001	MN675048A5G	IC, 8BIT MICROPROCESSOR SYSTEM	E.S.D.
TCC007	CHA100C.	CONTROL/SERVO	
IC6002	CNA1801N	REEL SENSOR UNIT	
IC6003	CNA1801N	REEL SENSOR UNIT	
IC7501	MN675048A5F	IC, 8BIT MICROPROCESSOR TIMER	E.S.D.
		TRANSISTORS	
Q1001	2SC4533LP.KT		A
	OR 2SC5130LF608		A
01002	2SD2259		
Q1003	2SD601A(R,S)	CHIP	
Q1004	2SB709A(Q,R)	CHIP	
Q1005	2SB709A(Q,R)	CHIP	
Q1055	2SD2375(P,Q)	C.121	
Q1052	2SD601(R,S)	CHIP	
Q3001	2SB709(R,S)	CHIP	
Q3201	IMZ1	COMPLX CMP SI NPN/PNP CHIP	
Q3202	2SB709(R,S)	CHIP	
Q3875	2SB709(R,S)	CHIP	
Q4001	2SB709A(Q,R,S)	CHIP	
Q4002	2SD601A(R,S)	CHIP	
Q4003	2SD601A(R,S)	CHIP	
Q4101	2SD601(R,S)	CHIP	
Q4601	2SD601(R,S)	CHIP	
06002	2SB709(R,S)	CHIP	
Q6002 Q6003	2SD601(R,S)	CHIP	
06009	VEKS5522	PHOTO SENSOR UNIT	
Q6009 Q6010	VEKS5522	PHOTO SENSOR UNIT	
Q7501	2SB709(R,S)	CHIP	
Q7502	2SD601(R,S)	CHIP	
07504	2SD601(R,S)	CHIP	
Q130+	ZSDOUI(K,S)	CHI	
		DIODES	
D1001	S1WBA40		A
	OR S1WBA60		A
D1002	ERA18-04V3		
D1003	ERA18-04V3		
D1005	ERA18-04V3		
D1006	RU3YXLFC1		
D1007	ERA18-04V3		
D1008	ERB81-004V1		
D1009	AK03V0		
D1011	MA4051NH	ZENER 5.1V	
D1012	MA858		
D1013	MA165		
D1015	MA7180A-TR	ZENER 18V	A
	OR MA7180B-TR	ZENER 18V	
D1016	MA165		
D1051	MA4100N	ZENER 10V	
D1052	MA165		
D1053	MA165		
D3004	MA4091-M	ZENER 9.1V	
		3.11	

Ref. No.	Part No.	Part Nam	ne	Remarks
D4201	MA165			
D6001	VEKS5521	SENSOR LED UNIT		
D6201	MA165			
D6202	MA165			
D6203	MA165			
D6204	MA165			
D7002	MA4300-TA	ZENER	30V	
D7501	MA165			
D7502	MA165			
D7505	MA165			
		RESISTORS		
R1001	VRESC2TK275T	+-10%	1/2W 2.7M	<u>A</u>
R1003	VRESE2TJ334		1/2W 330K	
R1004	ERG2SJW333E	METAL OXIDE	2W 33K	
R1005	ERG1SJW560E	METAL OXIDE	1W 56	
R1006	ERJ6GEYJ222V	MGF CHIP	1/10W 2.2K	
R1007	ERDS2TJ101		100	
R1008	ERDS2TJ392		3.9K	
R1010	ERD25FYJ100T			<u>A</u>
R1011	ERD25FYJ4R7T		4.7	<u>A</u>
R1014	ERJ6GEYJ221V	MGF CHIP	1/10W 220	
R1015	ERJ6GEYJ221V	MGF CHIP	1/10W 220	
R1016	ERJ8GEYJ562V	MGF CHIP	1/8W 5.6K	
R1017	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R1018	ERJ6GEYJ183V	MGF CHIP	1/10W 18K	
R1019	ERJ6GEYJ392V	MGF CHIP	1/10W 3.9K	
R1020	ERJ6GEYJ682V	MGF CHIP	1/10W 6.8K	
R1022	ERJ6GEYJ221V	MGF CHIP	1/10W 220	
R1024	ERD2FCVG330T	+-2%	33	<u>A</u>
R1051	ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	
R1052	ERDS2TJ153		15K	
R1053	ERDS2TJ153		15K	
R3002	ERJ6GEYJ331V	MGF CHIP	1/10W 330	
R3003	ERJ6GEYJ561V	MGF CHIP	1/10W 560	
R3004	ERJ6GEYJ750V	MGF CHIP	1/10W 75	
R3005	ERDS2TJ101		100	
R3021	ERJ6GEYJ332V	MGF CHIP	1/10W 3.3K	
R3022	ERJ6GEYJ152V	MGF CHIP	1/10W 1.5K	
R3023	ERJ6GEYJ121V	MGF CHIP	1/10W 120	
R3027	ERJ6GEYJ821V	MGF CHIP	1/10W 820	
R3029	ERJ6GEYJ125V	MGF CHIP	1/10W 1.2M	
R3030	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R3031	ERJ6GEYJ474V	MGF CHIP	1/10W 470K	
R3033	ERJ6GEYJ222V	MGF CHIP	1/10W 2.2K	
R3034	ERJ6GEYJ121V	MGF CHIP	1/10W 120	
R3035	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R3036	ERJ6GEYJ122V	MGF CHIP	1/10W 1.2K	
R3041	ERJ6GEYJ750V	MGF CHIP	1/10W 75	
R3202	ERJ6GEYJ821V	MGF CHIP	1/10W 820	
R3204	EVMF6SA00B23	VARIABLE	2K	
R3205	EVNCYAA03B13	VARIABLE	2K	
			1/10W 270	
R3206 R3207	ERJ6GEYJ271V ERJ6GEYJ222V	MGF CHIP	1/10W 2.70 1/10W 2.2K	
R3208	ERJ6GEYJ222V ERJ6GEYJ182V	MGF CHIP	1/10W 2.2K 1/10W 1.8K	
R3209	ERJ6GEYJ271V	MGF CHIP	1/10W 1.8K	
R3209 R3210	ERJ6GEYJ271V ERJ6GEYJ561V	MGF CHIP	1/10W 2/0 1/10W 560	
R3210	ERJ6GEYJ102V	MGF CHIP	1/10W 360 1/10W 1K	
R3211	ERJ6GEYJ102V ERJ6GEYJ153V	MGF CHIP	1/10W 1K 1/10W 15K	
R3212	ERJ6GEY0R00V	MGF CHIP		•
R3214 R3301	ERJ6GEYJ273V	MGF CHIP	1/10W 27K	_
R3302	ERJ6GEY0R00V ERJ6GEYJ222V	MGF CHIP	1/10W 0 1/10W 2.2K	•
R3874	ERJ6GEYJ101V	MGF CHIP	1/10W 2.2K	
		MGF CHIP	1/10W 100 1/10W 6.8K	
R3875 R4001	ERJ6GEYJ682V ERJ6GEYJ103V	MGF CHIP	1/10W 6.8K	
R4002	ERJ6GEYJ334V	MGF CHIP	1/10W 10K	
R4003	ERJ6GEYJ221V	MGF CHIP	1/10W 220	
R4004 R4005	ERJ6GEYJ333V	MGF CHIP	1/10W 33K 1/10W 2.2M	
R4005 R4006	ERJ6GEYJ225V	MGF CHIP		
R4006	ERJ6GEYJ681V	MGF CHIP	1/10W 680	
R4007	ERJ6GEYJ821V	MGF CHIP	1/10W 820	
R4008	ERJ6GEYG223V	MGF CHIP +-2%	1/10W 22K	
R4010	ERJ6GEYJ123V	MGF CHIP	1/10W 12K	
R4011	ERJ6GEYJ682V	MGF CHIP	1/10W 6.8K	
R4012	ERJ6GEYJ682V	MGF CHIP	1/10W 6.8K	
R4014	ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	

Ref. No.	Part No.	Part Nam	e	Remarks
R4015	ERJ6GEYJ222V	MGF CHIP	1/10W 2.2K	
R4017	ERJ6GEYJ561V	MGF CHIP	1/10W 560	
R4019	VCYSARH102KB	CERAMIC	50V 1000P	
R4028	ERJ6GEYJ222V	MGF CHIP	1/10W 2.2K	
R4101	ERJ6GEYJ224V	MGF CHIP	1/10W 220K	
R4102	ERJ6GEYG333V	MGF CHIP +-2%	1/10W 33K	
R4103	ERJ6GEYJ153V	MGF CHIP	1/10W 15K	
R4201	ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	
R4202 R4203	ERJ6GEYJ472V ERJ6GEYJ511V	MGF CHIP MGF CHIP	1/10W 4.7K 1/10W 510	
R4204	ERJ6GEYJ511V	MGF CHIP	1/10W 510	
R4205	ERJ6GEYG333V	MGF CHIP +-2%	1/10W 33K	
R4206	ERJ6GEYG333V	MGF CHIP +-2%	1/10W 33K	
R4207	ERJ6GEYG153V	MGF CHIP +-2%	1/10W 15K	
R4208	ERJ6GEYG153V	MGF CHIP +-2%	1/10W 15K	
R4209	ERJ6GEYG333V	MGF CHIP +-2%	1/10W 33K	
R4210	ERJ6GEYG333V	MGF CHIP +-2%	1/10W 33K	
R4211 R4212	ERJ6GEYG153V	MGF CHIP +-2%	1/10W 15K	
R4212	ERJ6GEYG153V ERJ6GEYJ333V	MGF CHIP +-2% MGF CHIP	1/10W 15K 1/10W 33K	
R4214	ERJ6GEYJ333V	MGF CHIP	1/10W 33K	
R4215	ERJ6GEYJ153V	MGF CHIP	1/10W 15K	
R4216	ERJ6GEYJ153V	MGF CHIP	1/10W 15K	
R4217	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R4218	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R4219	ERJ6GEYJ683V	MGF CHIP	1/10W 68K	
R4220	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R4221	ERJ6GEYJ101V	MGF CHIP	1/10W 100	
R4222 R4226	ERJ6GEYJ101V ERJ6GEY0R00V	MGF CHIP	1/10W 100 1/10W 0	•
R4230	ERJ6GEYØRØØV	MGF CHIP	1/10W 0	•
R4234	ERJ6GEYØRØØV	MGF CHIP	1/10W 0	•
R4240	ERJ6GEYØRØØV	MGF CHIP	1/10W 0	•
R4241	ERA6YEB153V	MGF CHIP +-0.1%	1/10W 15K	
R4243	ERDS2TJ152		1.5K	
R4244	ERJ6GEYJ152V	MGF CHIP	1/10W 1.5K	
R4245	ERJ6GEY0R00V	MGF CHIP	1/10W 0	•
R4246	ERJ6GEYJ333V	MGF CHIP	1/10W 33K	
R4247 R4248	ERJ6GEYJ123V	MGF CHIP	1/10W 12K 1/10W 0	
R4249	ERJ6GEY0R00V ERJ6GEYJ102V	MGF CHIP	1/10W 0 1/10W 1K	•
R4351	ERJ6GEYJ473V	MGF CHIP	1/10W 47K	
R4352	ERJ6GEYJ473V	MGF CHIP	1/10W 47K	
R4353	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
R4354	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
R4355	ERJ6GEYJ183V	MGF CHIP	1/10W 18K	
R4356	ERJ6GEYJ183V	MGF CHIP	1/10W 18K	
R4601	ERJ6GEYJ123V	MGF CHIP	1/10W 12K	
R4602 R4604	ERJ6GEYJ103V ERJ6GEYJ561V	MGF CHIP	1/10W 10K 1/10W 560	
R4605	ERJ6GEYJ562V	MGF CHIP	1/10W 5.6K	
R4606	ERJ6GEYJ682V	MGF CHIP	1/10W 6.8K	
R4607	ERJ6GEYJ101V	MGF CHIP	1/10W 100	
R6001	ERDS2TJ561		560	
R6002	ERDS2TJ561		560	
R6004	ERJ6GEYJ333V	MGF CHIP	1/10W 33K	
R6005	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
R6006 R6012	ERJ6GEYJ103V ERJ6GEYJ103V	MGF CHIP	1/10W 10K 1/10W 10K	
R6014	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6021	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R6025	ERJ6GEYJ101V	MGF CHIP	1/10W 100	
R6026	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R6029	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6030	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6033	ERDS2TJ681		680	
R6048	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R6049	ERJ6GEYJ102V	MGF CHIP	1/10W 1K 1/10W 10K	
R6051 R6052	ERJ6GEYJ103V ERJ6GEYJ103V	MGF CHIP MGF CHIP	1/10W 10K 1/10W 10K	
R6053	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6058	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6062	ERJ6GEYJ224V	MGF CHIP	1/10W 220K	
R6063	ERJ6GEYJ153V	MGF CHIP	1/10W 15K	
R6064	ERJ6GEYJ153V	MGF CHIP	1/10W 15K	
R6066	ERJ6GEYJ473V	MGF CHIP	1/10W 47K	
R6069	ERJ6GEYJ104V	MGF CHIP	1/10W 100K	
R6070	ERJ6GEYJ104V	MGF CHIP	1/10W 100K	

	Part No.	Par	Name	Remarks
R6073	ERJ6GEYJ473V	MGF CHIP	1/10W 47K	
R6074	ERDS2TJ272		2.7K	
R6075	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
R6077	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6085	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
R6086	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
R6087	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
R6088	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R6093	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6097	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R6098	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R6102	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R6201	EVMF6SA00B15	VARIABLE	100K	
R6202	ERJ6GEYJ104V	MGF CHIP	1/10W 100K	
R6203	ERJ6GEYJ333V	MGF CHIP	1/10W 33K	
R6204	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R6205	ERJ6GEYJ243V	MGF CHIP	1/10W 24K	
R6206	ERJ6GEYJ333V	MGF CHIP	1/10W 33K	
R6207	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
R6208	ERJ6GEYJ823V	MGF CHIP	1/10W 82K	
R6209	ERJ6GEYJ184V	MGF CHIP	1/10W 180K	
R6210	ERJ6GEYJ475V	MGF CHIP	1/10W 4.7M	
R6211	ERJ6GEYJ221V	MGF CHIP	1/10W 220	
R6212	ERJ6GEYJ332V	MGF CHIP	1/10W 3.3K	
R6213	ERJ6GEYJ473V	MGF CHIP	1/10W 47K	
R6214	ERJ6GEYJ394V	MGF CHIP	1/10W 390K	
R6215	ERJ6GEYJ154V	MGF CHIP	1/10W 150K	
R6216	ERJ6GEYJ222V	MGF CHIP	1/10W 2.2K	
R6218	ERJ6GEYJ154V	MGF CHIP	1/10W 150K	
R6219	ERJ6GEYJ274V	MGF CHIP	1/10W 270K	
R6221	ERJ6GEYJ221V	MGF CHIP	1/10W 220	
R6222	ERJ6GEYJ154V	MGF CHIP	1/10W 150K	
R6223	ERJ6GEYJ392V	MGF CHIP	1/10W 3.9K	
R6224	ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	
R6228	ERJ6GEYJ152V	MGF CHIP	1/10W 1.5K	
R6230	ERJ6GEYJ222V	MGF CHIP	1/10W 2.2K	
R6361	ERJ8GEYJ4R7V	MGF CHIP	1/8W 4.7	
R7002	ERJ6GEYJ271V	MGF CHIP	1/10W 270	
R7003	ERDS2TJ102	1101 01121	1K	
R7004	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R7006	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R7007	EVNCYAA03B24	VARIABLE	20K	
	+	_		
R7507	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
R7511	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R7512	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R7513	ERJ6GEYJ563V	MGF CHIP	1/10W 56K	
R7514	ERJ6GEYJ563V	MGF CHIP	1/10W 56K	
R7515	ERJ6GEYJ101V	MGF CHIP	1/10W 100	
R7518	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
R7519	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
R7520	ERJ6GEYJ101V	MGF CHIP	1/10W 100	
R7525	ERJ6GEYJ472V	MGF CHIP	1/10W 4.7K	
R7526	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R7527	ERDS2TJ560		56	
R7538	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R7539	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R7540	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R7541	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R7542	ERDS2TJ391		390	
R7543	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R7544	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R7545	ERJ6GEYJ182V	MGF CHIP	1/10W 1.8K	
R7546	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R7548	ERJ6GEYJ475V	MGF CHIP	1/10W 4.7M	
R7549	ERJ6GEYJ563V	MGF CHIP	1/10W 56K	
R7556	ERJ6GEYJ562V	MGF CHIP	1/10W 5.6K	
550	_11300E13302V	Sidi CHEF	1/ 10H J.UK	
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Ref. No.	Part No.	Part Nam	е		Remarks
		CARACITORS			
		CAPACITORS			Δ
C1001	ECKNRS103ZVD	CERAMIC +80%-20%			
	OR ECKRRS103ZVD OR VCKST0G103ZY				
	,				
C1002	OR VCKSUQD103MY ECKNNB332ME8		125V		
C1002		CERAMIC +-20%			
	OR ECKRRS332ME8		125V		
	OR VCKSTQG332MX		125V		
C4002	OR VCKSUQD332MX		125V 3		
C1003	ECKNNB332ME8	CERAMIC +-20%	125V		
	OR ECKRNB332ME8		125V		
	OR VCKSTQG332MX		125V		
	OR VCKSUQD332MX		125V		
C1004	ECEA2DU121YB	ELECTROLYTIC	200V	120	
C1005	ECA2DHG4R7B	ELECTROLYTIC	200V	4.7	
C1006	ECKW2H221KB5	CERAMIC		220P	
C1007	VCYSBRC104MX	CERAMIC +-20%	16V	0.1	
C1009	ECQB1H103JF	POLYESTER +-5%	50V	0.01	
C1010	ECUV1H101JCM	C CHIP +-5%	50V	100P	
C1011	ECEA1HGE4R7	ELECTROLYTIC	50V	4.7	
C1012	ECEA1PEE331	ELECTROLYTIC	18V	330	
C1013	ECEA1PEE331	ELECTROLYTIC	18V	330	
C1014	ECEA1HGE470	ELECTROLYTIC	50V	47	
C1016	ECEA1PEE331	ELECTROLYTIC	18V	330	
C1017	ECA0JFE102XB	ELECTROLYTIC	6.3V	1000	
C1018	ECQB1H104P9	POLYESTER +100%-0%	50V	0.1	
C1019	ECEA0JEE101	ELECTROLYTIC	6.3V	100	
C1021	ECEA1HKG010	ELECTROLYTIC	50V	1	
C1023	ECKW1H103ZF5	CERAMIC +80%-20%	50V	0.01	
C1025	ECKNRS101MBY	CERAMIC +-20%	125V	100P	A
	OR VCKSTNG101KW	CERAMIC	125V	100P	\triangle
	OR VCKSUND101KW	CERAMIC	125V	100P	Δ
C1027	ECKNRS103ZVD	CERAMIC +80%-20%	125V	0.01	\triangle
	OR ECKRRS103ZVD			0.01	
	OR VCKSTQG103ZY			0.01	
	OR VCKSUQD103MY		125V	0.01	
C1028	ECEA1PEE331	ELECTROLYTIC	18V	330	
C1029	ECUV1H101JCN	C CHIP +-5%	50V	100P	
C1029	VCYSBRE183KX	CERAMIC +-3%		0.018	
C1032	ECEA0JKA470	ELECTROLYTIC	6.3V	47	
C1052	ECEAUJKA470	ELECTROLYTIC	50V	0.47	
C1052	ECEA1CKA100	ELECTROLYTIC	16V	10	
C3001	ECA0JM471			470	
		ELECTROLYTIC C CHIP +80%-20%	6.3V		
C3002	ECUV1E104ZFN			0.1	
C3011	ECUV1H103KBN	C CHIP	50V	0.01	
C3014	ECUV1E104ZFN	C CHIP +80%-20%		0.1	
C3015	ECUV1E104ZFN	C CHIP +80%-20%		0.1	
C3017	ECEA1EKA4R7	ELECTROLYTIC	25V	4.7	
C3018	ECUV1H181JCN	C CHIP +-5%	50V	180P	
C3019	ECUV1H560JCN		50V	56P	
C3021	ECUV1C224ZFN	C CHIP +80%-20%		0.22	
C3022	ECUV1E104ZFN	C CHIP +80%-20%	25V	0.1	
C3023	ECEA0JKA221	ELECTROLYTIC	6.3V	220	
C3024	ECEA0JKA470	ELECTROLYTIC	6.3V	47	
C3025	ECUV1H103ZFN	C CHIP +80%-20%	50V	0.01	
C3026	ECUV1E104ZFN	C CHIP +80%-20%	25V	0.1	
C3027	ECUV1C224ZFN	C CHIP +80%-20%	16V	0.22	
C3028	ECEA1CKA100	ELECTROLYTIC	16V	10	
C3029	ECUV1E104ZFN	C CHIP +80%-20%	25V	0.1	
C3030	ECEA0JKA221	ELECTROLYTIC	6.3V	220	
C3031	ECEA1HKA2R2	ELECTROLYTIC	50V	2.2	
C3032	ECEA1HKA2R2	ELECTROLYTIC	50V	2.2	
C3033	ECEA0JKA470	ELECTROLYTIC	6.3V	47	
C3034	ECEA1HKAR22	ELECTROLYTIC	50V	0.22	
C3035	ECUV1H560JCN	C CHIP +-5%	50V	56P	
C3036	ECUV1E104ZFN	C CHIP +80%-20%	25V	0.1	
C3037	ECEA0JKA220	ELECTROLYTIC	6.3V	22	
C3038	ECEA1HKA2R2	ELECTROLYTIC	50V	2.2	
C3039	ECUV1H822KBN	C CHIP		8200P	
C3043	ECUV1H103ZFN	C CHIP +80%-20%		0.01	
C3044	ECUV1C474ZFN	C CHIP +80%-20%		0.01	
C3045	ECUV1C474ZFN	C CHIP +80%-20%		0.47	
C3047	ECUV1H181JCN	C CHIP +-5%	50V	180P	
C3048	ECUV1H390JCN	C CHIP +-5%	50V	39P	
C3049	ECUV1E104ZFN	C CHIP +80%-20%		0.1	
C3050	ECUV1E104ZFN	C CHIP +80%-20%		0.1	
C3051	ECEA0JKA221	ELECTROLYTIC	6.3V	220	

C3053 C3054 C3055 C3056 C3056 C3057 C3058 C3062 C3101 C3102 C3104 C3105 C3106 C3108 C3109 C3201 C3201 C3202 C3203 C3205 C3206 C3207 C3208 C3210 C3211 C3213	ECUV1H103ZFN ECEA1HKAR47 ECEA1HKAR47 ECEA1HKAR47 ECEA1HKAR47 ECEA1HKAR47 ECEA1HKAR10 ECEAHKAR10 ECUV1E104ZFN ECEARHKAR10 ECUV1E104ZFN ECUV1H103ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1H103ZFN	C CHIP +80%-20% ELECTROLYTIC C CHIP ELECTROLYTIC C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20%	50W 0.47 50W 2.2 50W 3900P 50W 0.1 25V 0.1 50W 1 25W 0.1 50W 0.01 50W 0.01 50W 0.01 50W 1000P 6.3W 220 25W 0.1 6.3W 47 25V 0.1 50W 1000P 25W 0.1 50W 4700P	
C3054 C3055 C3056 C3057 C3058 C3062 C3101 C3102 C3104 C3105 C3106 C3108 C3109 C3201 C3202 C3203 C3205 C3206 C3207 C3208 C3210 C3211 C3211 C3211 C3213 C3214 C3215 C3216	ECEA1HKA2R2 ECUV1H392KBN ECEAJHKA010 ECUV1E104ZFN ECEA0JKA221 ECUV3E104ZFN ECEA1HKA010 ECUV1E104ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H102KBN ECEA0JKA221 ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1H103ZFN ECUV1E104ZFN ECUV1H103ZFN	ELECTROLYTIC C CHIP ELECTROLYTIC C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20%	50W 2.2 50W 3900P 50W 1 25V 0.1 6.3W 220 25V 0.1 50W 0.01 50W 0.01 50W 0.01 50W 1000P 6.3W 220 25W 0.1 6.3W 47 25V 0.1 25V 0.1 25W 0.1 25W 0.1 50W 1000P 6.3W 1000P 7 1000P 8 1000P <tr< th=""><th></th></tr<>	
C3055 C3056 C3057 C3058 C3058 C3062 C3101 C3102 C3104 C3105 C3106 C3108 C3109 C3201 C3202 C3203 C3203 C3205 C3206 C3207 C3208 C3210 C3211 C3213 C3214 C3215 C3216	ECUV1H392KBN ECEA1HKA010 ECUV1E104ZFN ECEA0JKA221 ECUV1E104ZFN ECEA1HKA010 ECUV1E104ZFN ECEA1HKA010 ECUV1E104ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1E104ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN	C CHIP ELECTROLYTIC C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20%	50W 3900P 50W 1 25W 0.1 6.3W 220 25W 0.1 50W 0.0 50W 0.01 50W 0.01 50W 200 25W 0.1 6.3W 220 25W 0.1 25W 0.1 25W 0.1 50W 1000P 25W 0.1 50W 4700P	
C3056 C3057 C3058 C3062 C3101 C3102 C3104 C3105 C3106 C3108 C3109 C3201 C3202 C3203 C3203 C3205 C3206 C3207 C3208 C3210 C3211 C3213 C3214 C3215 C3216	ECEA1HKA010 ECUV1E104ZFN ECEA0JKA221 ECUV1E104ZFN ECEA1HKA010 ECUV1E104ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H104ZFN ECUV1H104ZFN ECUV1H104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1H103ZFN ECUV1E104ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN	ELECTROLYTIC C CHIP	50V 1 25V 0.1 6.3V 220 25V 0.1 25V 0.1 50V 0.01 50V 0.01 50V 1000P 6.3V 220 25V 0.1 6.3V 47 25V 0.1	
C3057 C3058 C3062 C3101 C3102 C3104 C3105 C3106 C3108 C3109 C3201 C3202 C3203 C3205 C3206 C3207 C3208 C3210 C3211 C3213 C3214 C3215 C3216	ECUV1E104ZFN ECEA0JKA221 ECUV1E104ZFN ECEA1HKA010 ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H104ZFN ECEA0JKA221 ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1H102KBN ECUV1E104ZFN ECUV1H102KBN ECUV1E104ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN	C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20%	25V 0.1 6.3V 220 25V 0.1 50V 0.01 50V 0.01 50V 0.01 50V 1000P 6.3V 220 25V 0.1 6.3V 47 25V 0.1 50V 1000P 25V 0.1 50V 1000P	
C3058 C3062 C3101 C3102 C3104 C3105 C3106 C3106 C3108 C3109 C3201 C3202 C3203 C3205 C3206 C3207 C3208 C3201 C3201 C3201 C3201 C3202 C3203 C3205 C3206 C3207 C3208 C3211 C3211 C3211 C3211 C3211 C3211 C3211 C3211 C3215 C3216	ECEAØJKA221 ECUV1E104ZFN ECEAJHKA010 ECUV1E104ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H10ZEN ECEAØJKA221 ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1H10ZKBN ECUV1E104ZFN ECUV1H10ZKBN	ELECTROLYTIC C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20% C CHIP +80%-20% C CHIP +80%-20% C CHIP +80%-20% C CHIP ELECTROLYTIC C CHIP +80%-20%	6.3V 220 25V 0.1 50V 1.1 50V 0.01 50V 0.01 50V 0.01 50V 1000P 6.3V 220 25V 0.1 6.3V 47 25V 0.1 50V 1000P 25V 0.1 50V 1000P 25V 0.1	
C3062 C3101 C3102 C3104 C3105 C3106 C3108 C3109 C3201 C3202 C3203 C3205 C3206 C3207 C3208 C3210 C3211 C3213 C3214 C3215 C3216	ECUV1E104ZFN ECEA1HKA010 ECUV1E104ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECEA0JKA221 ECUV1E104ZFN ECEA0JKA470 ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1H102KBN ECUV1E104ZFN ECUV1H102ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN	C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20%	25V 0.1 50V 1.0 25V 0.01 50V 0.01 50V 0.01 50V 1000P 6.3V 220 25V 0.1 6.3V 47 25V 0.1 25V 0.1 50V 1000P 25V 0.1 50V 4700P	
C3101 C3102 C3104 C3105 C3106 C3108 C3109 C3201 C3202 C3203 C3205 C3206 C3207 C3208 C3210 C3211 C3213 C3214 C3215 C3216	ECEA1HKA010 ECUV1E104ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H102KBN ECEA0JKA221 ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1H102KBN ECUV1E104ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN	ELECTROLYTIC C CHIP +80%-20%	50W 1 25W 0.1 50W 0.01 50W 0.01 50W 0.01 50W 1000P 6.3W 220 25W 0.1 6.3W 47 25W 0.1 25W 0.1 25W 0.1 25W 0.1 50W 1000P 25W 0.1 50W 4700P	
C3102 C3104 C3105 C3106 C3108 C3109 C3201 C3202 C3203 C3205 C3206 C3207 C3208 C3210 C3211 C3211 C3211 C3211 C3215 C3216	ECUV1E104ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H102KBN ECEA0JKA221 ECUV1E104ZFN ECEA0JKA470 ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1H102KBN ECUV1H102KBN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN	C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20%	25V 0.1 50V 0.01 50V 0.01 50V 0.01 50V 1000P 6.3V 220 25V 0.1 25V 0.1 25V 0.1 50V 1000P 25V 0.1 50V 4700P	
C3104 C3105 C3106 C3108 C3108 C3109 C3201 C3202 C3203 C3205 C3206 C3207 C3208 C3210 C3211 C3211 C3214 C3215 C3216	ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H102KBN ECEA0JKA221 ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1E104ZFN ECUV1H10ZKBN ECUV1E104ZFN ECUV1H10ZKBN ECUV1H47ZKBN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1E104ZFN	C CHIP +80%-20% C CHIP +80%-20% C CHIP +80%-20% C CHIP ELECTROLYTIC C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20% C CHIP +80%-20% C CHIP +80%-20% C CHIP +80%-20% C CHIP +80%-20%	50V 0.01 50V 0.01 50V 1000 50V 1200 25V 0.1 6.3V 47 25V 0.1 25V 0.1 50V 1000 25V 0.1 50V 4700 4700 4700	
C3105 C3106 C3108 C3109 C3201 C3202 C3203 C3205 C3206 C3207 C3208 C3210 C3211 C3211 C3213 C3214 C3215 C3216	ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECEA0JKA2Z1 ECUV1E104ZFN ECEA0JKA470 ECUV1E104ZFN ECUV1E104ZFN ECUV1H10ZKBN ECUV1H10ZKBN ECUV1H10ZKBN ECUV1H10ZKBN ECUV1H17ZKBN ECUV1H17ZKBN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN	C CHIP +80%-20% C CHIP +80%-20% C CHIP = H80%-20% ELECTROLYTIC C CHIP +80%-20%	50V 0.01 50V 0.01 50V 1000P 6.3V 220 25V 0.1 6.3V 47 25V 0.1 50V 1000P 25V 0.1 50V 4700P	
C3106 C3108 C3109 C3201 C3202 C3203 C3205 C3206 C3207 C3208 C3211 C3211 C3211 C3213 C3214 C3215 C3216	ECUV1H103ZFN ECUV1H102KBN ECEA0JKA221 ECUV1E104ZFN ECEA0JKA470 ECUV1E104ZFN ECUV1E104ZFN ECUV1H102KBN ECUV1H102KBN ECUV1H102KBN ECUV1E104ZFN ECUV1H47ZKBN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN	C CHIP +80%-20% C CHIP ELECTROLYTIC C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20% C CHIP +80%-20% C CHIP C CHIP +80%-20% C CHIP C CHIP C CHIP +80%-20% C CHIP C CHIP +80%-20% C CHIP +80%-20% C CHIP +80%-20%	50V 0.01 50V 1000P 6.3V 220 25V 0.1 6.3V 47 25V 0.1 50V 1000P 25V 0.1 50V 4700P	
C3108 C3109 C3201 C3202 C3203 C3205 C3206 C3207 C3208 C3210 C3211 C3213 C3214 C3215 C3216	ECUV1H102KBN ECEA0JKA221 ECUV1E104ZFN ECEA0JKA470 ECUV1E104ZFN ECUV1E104ZFN ECUV1H104ZFN ECUV1H102KBN ECUV1H102KBN ECUV1H47ZKBN ECUV1H47ZKBN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN	C CHIP ELECTROLYTIC C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20% C CHIP +80%-20% C CHIP C CHIP +80%-20% C CHIP C CHIP C CHIP +80%-20% C CHIP C CHIP +80%-20% C CHIP +80%-20% C CHIP +80%-20%	50V 1000P 6.3V 220 25V 0.1 6.3V 47 25V 0.1 25V 0.1 50V 1000P 25V 0.1 50V 4700P	
C3109 C3201 C3202 C3203 C3203 C3206 C3207 C3208 C3210 C3211 C3211 C3213 C3214 C3215 C3216	ECEAØJKA221 ECUV1E104ZFN ECEAØJKA470 ECUV1E104ZFN ECUV1E104ZFN ECUV1H02KBN ECUV1E104ZFN ECUV1H102KBN ECUV1H17ZKBN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN	ELECTROLYTIC C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20% C CHIP +80%-20% C CHIP C CHIP +80%-20% C CHIP C CHIP +80%-20% C CHIP +80%-20% C CHIP +80%-20%	6.3V 220 25V 0.1 6.3V 47 25V 0.1 25V 0.1 50V 1000P 25V 0.1 50V 4700P	
C3109 C3201 C3202 C3203 C3203 C3206 C3207 C3208 C3210 C3211 C3211 C3213 C3214 C3215 C3216	ECUV1E104ZFN ECEA0JKA470 ECUV1E104ZFN ECUV1E104ZFN ECUV1H102KBN ECUV1H102KBN ECUV1H47ZKBN ECUV1H47ZKBN ECUV1H03ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN	ELECTROLYTIC C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20% C CHIP +80%-20% C CHIP C CHIP +80%-20% C CHIP C CHIP +80%-20% C CHIP +80%-20% C CHIP +80%-20%	25V 0.1 6.3V 47 25V 0.1 25V 0.1 50V 1000P 25V 0.1 50V 4700P	
C3202 C3203 C3205 C3206 C3207 C3208 C3210 C3211 C3211 C3213 C3214 C3215 C3216	ECEA0JKA470 ECUV1E104ZFN ECUV1E104ZFN ECUV1H102KBN ECUV1E104ZFN ECUV1H472KBN ECUV1H472KBN ECUV1H03ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN	C CHIP +80%-20% ELECTROLYTIC C CHIP +80%-20% C CHIP +80%-20% C CHIP +80%-20% C CHIP +80%-20% C CHIP C CHIP +80%-20% C CHIP +80%-20% C CHIP +80%-20%	25V 0.1 6.3V 47 25V 0.1 25V 0.1 50V 1000P 25V 0.1 50V 4700P	
C3202 C3203 C3205 C3206 C3207 C3208 C3210 C3211 C3211 C3213 C3214 C3215 C3216	ECUV1E104ZFN ECUV1E104ZFN ECUV1H102KBN ECUV1E104ZFN ECUV1H47ZKBN ECUV1E104ZFN ECUV1H103ZFN ECUV1H121JCN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN	C CHIP +80%-20% C CHIP +80%-20% C CHIP C CHIP +80%-20% C CHIP C CHIP +80%-20% C CHIP +80%-20% C CHIP +80%-20%	6.3V 47 25V 0.1 25V 0.1 50V 1000P 25V 0.1 50V 4700P	
C3203 C3205 C3206 C3207 C3208 C3210 C3211 C3213 C3214 C3215 C3216	ECUV1E104ZFN ECUV1E104ZFN ECUV1H102KBN ECUV1E104ZFN ECUV1H47ZKBN ECUV1E104ZFN ECUV1H103ZFN ECUV1H121JCN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN	C CHIP +80%-20% C CHIP +80%-20% C CHIP C CHIP +80%-20% C CHIP C CHIP +80%-20% C CHIP +80%-20% C CHIP +80%-20%	25V 0.1 25V 0.1 50V 1000P 25V 0.1 50V 4700P	
C3205 C3206 C3207 C3208 C3210 C3211 C3213 C3214 C3215 C3216	ECUV1E104ZFN ECUV1H102KBN ECUV1E104ZFN ECUV1H47ZKBN ECUV1H47ZKBN ECUV1H03ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN ECUV1H103ZFN	C CHIP +80%-20% C CHIP C CHIP +80%-20% C CHIP C CHIP C CHIP +80%-20% C CHIP +80%-20% C CHIP +80%-20%	25V 0.1 50V 1000P 25V 0.1 50V 4700P	
C3206 C3207 C3208 C3210 C3211 C3213 C3214 C3215 C3216	ECUV1H102KBN ECUV1E104ZFN ECUV1H472KBN ECUV1E104ZFN ECUV1H103ZFN ECUV1H121JCN ECUV1H103ZFN ECUV1H103ZFN	C CHIP C CHIP +80%-20% C CHIP C CHIP +80%-20% C CHIP +80%-20%	50V 1000P 25V 0.1 50V 4700P	
C3207 C3208 C3210 C3211 C3213 C3214 C3215 C3216	ECUV1E104ZFN ECUV1H472KBN ECUV1E104ZFN ECUV1H103ZFN ECUV1H121JCN ECUV1H103ZFN ECUV1H103ZFN	C CHIP +80%-20% C CHIP C CHIP +80%-20% C CHIP +80%-20%	25V 0.1 50V 4700P	
C3208 C3210 C3211 C3213 C3214 C3215 C3216	ECUV1H472KBN ECUV1E104ZFN ECUV1H103ZFN ECUV1H121JCN ECUV1H103ZFN ECUV1E104ZFN	C CHIP +80%-20% C CHIP +80%-20%	50V 4700P	
C3210 C3211 C3213 C3214 C3215 C3216	ECUV1E104ZFN ECUV1H103ZFN ECUV1H121JCN ECUV1H103ZFN ECUV1E104ZFN	C CHIP +80%-20% C CHIP +80%-20%		
C3211 C3213 C3214 C3215 C3216	ECUV1H103ZFN ECUV1H121JCN ECUV1H103ZFN ECUV1E104ZFN	C CHIP +80%-20%		
C3213 C3214 C3215 C3216	ECUV1H121JCN ECUV1H103ZFN ECUV1E104ZFN			
C3214 C3215 C3216	ECUV1H103ZFN ECUV1E104ZFN		50V 0.01	
C3215 C3216	ECUV1E104ZFN	C CHIP +80%-20%		
C3216		C CHIP +80%-20%		
	F CO 4 THEORY CIN	C CHIP +-5%	50V 18P	
UL11				
C3218	ECUV1H101JCN ECUV1H103ZFN	C CHIP +-5% C CHIP +80%-20%	50V 100P 50V 0.01	
C3218 C3301	ECUV1F103ZFN ECUV1E104ZFN	C CHIP +80%-20%		
		C CHIP +80%-20%		
	ECUV1H103ZFN			
C3304	ECUV1H103ZFN	C CHIP +80%-20%		
C3306	ECUV1C105ZFN	C CHIP +80%-20%		
	ECUV1H180GCN	C CHIP +-2%	50V 18P	
	ECUV1H220JCN	C CHIP +-5%	50V 22P	
C3310	ECUV1H103ZFN	C CHIP +80%-20%		
	ECEA0JKA470	ELECTROLYTIC	6.3V 47	
C3312	ECUV1H150JCN	C CHIP +-5%	50V 15P	
C4001	ECUV1E104KBN	C CHIP	25V 0.1	
C4002	ECEA1HKA010	ELECTROLYTIC	50V 1	
	ECUV1H392KBN	C CHIP	50V 3900P	
C4004	ECUV1H103KBN	C CHIP	50V 0.01	
	ECEA0JKA220	ELECTROLYTIC	6.3V 22	
C4006	ECUV1H102KBN	C CHIP	50V 1000P	
C4007	ECEA0JKA220	ELECTROLYTIC	6.3V 22	
C4008	ECEA0JKA470	ELECTROLYTIC	6.3V 47	
	ECEA1CKA100	ELECTROLYTIC	16V 10	
C4010	ECUV1E273KBN	C CHIP	25V 0.027	
C4011	ECUV1H822KBN	C CHIP	50V 8200P	
C4012	ECEA1HKA010	ELECTROLYTIC	50V 1	
C4014	ECEA1HKA010	ELECTROLYTIC	50V 1	
C4015	ECUV1E104ZFN	C CHIP +80%-20%	25V 0.1	
C4017	ECUV1H103KBN	C CHIP	50V 0.01	
	ECUV1H221JCN	C CHIP +-5%	50V 220P	
C4102	ECHS1562JZ3	POLYESTER +-5%	100V 5600P	
C4103	ECUV1H103KBN	C CHIP	50V 0.01	
C4104	ECUV1H103KBN	C CHIP	50V 0.01	
C4106	ECEA1CKA220	ELECTROLYTIC	16V 22	
C4201	ECUV1E473KBN	C CHIP	25V 0.047	
C4202	ECUV1E473KBN	C CHIP	25V 0.047	
C4203	ECEA0JKA330	ELECTROLYTIC	6.3V 33	
C4204	ECEA0JKA330	ELECTROLYTIC	6.3V 33	
C4205	ECEA1HKA2R2	ELECTROLYTIC	50V 2.2	
C4206	ECEA1HKA2R2	ELECTROLYTIC	50V 2.2	
C4207	ECEA0JKA101	ELECTROLYTIC	6.3V 100	
C4208	ECEA0JKA101	ELECTROLYTIC	6.3V 100	
	ECUV1H153KBN	C CHIP	50V 0.015	
C4210	ECUV1H153KBN	C CHIP	50V 0.015	
C4211	ECUV1H103KBN	C CHIP	50V 0.01	
C4212	ECUV1H103KBN	C CHIP	50V 0.01	
	ECEA1HKA010	ELECTROLYTIC	50V 1	
C4214	ECEA1HKA010	ELECTROLYTIC	50V 1	
C4214 C4215	ECEA1HKA010	ELECTROLYTIC	50V 1	
C4213	ECEA1HKA010	ELECTROLYTIC	50V 1	
C4217	ECEA1HKA010	ELECTROLYTIC		
C4218	ECEA1HKA010	ELECTROLYTIC	50V 1	
C4219	ECEA1CKA100	ELECTROLYTIC	16V 10	

Ref. No.	Part No.	Part Name		Remarks
C4220	ECEA1CKA100	ELECTROLYTIC	16V 10	
C4221	ECEA1CKA100	ELECTROLYTIC	16V 10	
C4222	ECEA1CKA100	ELECTROLYTIC	16V 10	
C4235	ECEA0JKA101	ELECTROLYTIC	6.3V 100	
C4236	ECEA0JKA470	ELECTROLYTIC	6.3V 47	
C4237	ECEA1CKA100	ELECTROLYTIC	16V 10	
C4238	ECEA1CKA100	ELECTROLYTIC	16V 10	
C4239	ECEA1HKA010	ELECTROLYTIC	50V 1	
C4240	ECUV1C224ZFN	C CHIP +80%-20%	16V 0.22	
C4242	ECUV1H103ZFN	C CHIP +80%-20%	50V 0.01	
C4244	ERJ6GEYØRØØV	MGF CHIP	1/10W 0	•
C4351	ECEA1EKA4R7	ELECTROLYTIC	25V 4.7	
C4352	ECEA1CKA100	ELECTROLYTIC	16V 10	
C4353	ECEA1EKA4R7	ELECTROLYTIC	25V 4.7	
C4354	ECEA1CKA100	ELECTROLYTIC	16V 10	
C4355	ECUV1H103ZFN	C CHIP +80%-20%	50V 0.01	
C4356	ECEA0JKA220	ELECTROLYTIC	6.3V 22	
C4601	ECEA1CKA100	ELECTROLYTIC	16V 10	
C4603	ECEA1CKA100	ELECTROLYTIC	16V 10	
C4606	ECEA1CKA100	ELECTROLYTIC	16V 10	
C6002	ECUV1E104ZFN	C CHIP +80%-20%		
C6004	ECUV1H101JCN	C CHIP +-5%	50V 100P	
C6005	ECUV1H150GCN	C CHIP +-2%	50V 15P	
C6006	ECUV1H120JCN	C CHIP +-5%	50V 12P	
C6007	ECUV1H101JCN	C CHIP +-5%	50V 100P	
C6008	ECUV1E104ZFN	C CHIP +80%-20%		
C6009	ECUV1H101JCN	C CHIP +-5%	50V 100P	
C6201	ECEA0JKA470	ELECTROLYTIC	6.3V 47	
C6202	ECEA0JKA330	ELECTROLYTIC	6.3V 33	
C6203	ECUV1H103KBN	C CHIP	50V 0.01	
C6204	ECUV1H103KBN	C CHIP	50V 0.01	
C6205	ECUV1H102KBN	C CHIP	50V 1000P	
C6206	ECUV1H103KBN	C CHIP	50V 0.01	
C6207	ECQB1H393KF	POLYESTER	50V 0.039	
C6208	ECEA1HKA010	ELECTROLYTIC	50V 1	
C6209	ECEA1CKA100	ELECTROLYTIC	16V 10	
C6211	ECUV1H272KBN	C CHIP	50V 2700P	
C6212	ECUV1E104KBN	C CHIP		
C6212	ECUV1H151KN	C CHIP		
C6214	ECUV1H191KN ECUV1H102KBN	C CHIP	50V 150P 50V 1000P	
C6214	ECUV1H103KBN	C CHIP	50V 10001	
C6217	ECUV1F104ZFN	C CHIP +80%-20%		
C6217	ECEA1CKA100	ELECTROLYTIC	16V 10	
C6221				
	ECEA0JKA220	ELECTROLYTIC		
C6222	ECUV1H272KBN	C CHIP	50V 2700P 50V 0.01	
C6223	ECUV1H103KBN	C CHIP		
C6224	ECEA0JKA101	ELECTROLYTIC	6.3V 100	
C6228	ECUV1E104ZFN	C CHIP +80%-20%		
C7001	ECEA0JKA221	ELECTROLYTIC	6.3V 220	
C7003	ECUV1H103ZFN		50V 0.01	
C7006	ECUV1H103ZFN	C CHIP +80%-20%		
C7008	ECEA1CKA101	ELECTROLYTIC	16V 100	
C7010	ECUV1H102KBN	C CHIP	50V 1000P	
C7015	ECUV1C105ZFN	C CHIP +80%-20%		
C7018	ECUV1H103ZFN	C CHIP +80%-20%		
C7019	ECUV1H103ZFN	C CHIP +80%-20%		
C7020	ECUV1H103ZFN	C CHIP +80%-20%		
C7022	ECUV1H330JCN	C CHIP +-5%	50V 33P	
C7023	ECUV1H330JCN	C CHIP +-5%	50V 33P	
C7024	ECUV1H103KBN	C CHIP	50V 0.01	
C7502	ECUV1H150GCN	C CHIP +-2%	50V 15P	
C7503	ECUV1H12ØJCN	C CHIP +-5%	50V 12P	
C7505	ECUV1E104ZFN	C CHIP +80%-20%		
C7506	ECUV1E104ZFN	C CHIP +80%-20%		
C7507	ECUV1H101JCN	C CHIP +-5%	50V 100P	
C7509	ECUV1H101JCN	C CHIP +-5%	50V 100P	
C7512	ECUV1E104ZFN	C CHIP +80%-20%		
C7514	ECEA0JKA101	ELECTROLYTIC	6.3V 100	
C7515	ECEA0JU471	ELECTROLYTIC	6.3V 470	
	ECEA0JKA101	ELECTROLYTIC	6.3V 100	
C7516	I			
C7516				

Ref. No.	Part No.	Part Name			Remarks
		COILS			
L1001	ELF15N005AB		0.5A	18M	
	OR VLQS0166		0.5A	18M	
	OR VLQS0167	LINE FILTER	0.5A	18M	<u>A</u>
L1002	VLQSAB7D220K			22	
L1003	VLQSAB7D100K			10	
L1006	VLPS0083				
L3014	VLQSH02R470K			47	
L3016	ELESN330KA			33	
L3018	ELESN470KA			47	
L3101	ELESN101KA			100	
L3201	ELESN101KA			100	
L3202	ELESN121KA			120	
L3203	VLQSH02R220K			22	
L3302	VLQSH02R180J	+-5%		18	
L4001	ELELN153KA			15M	
L4101	ELESN471KA			470	
L7001	ELESN120KA			12	
L7002	ELESN101KA			100	
L7004	VLPS0092	CHIP			
		CDVCTAL OCCULATION	TOP.		
X3010	VSXS0195	CRYSTAL OSCILLAT	UK		
X6001					
	VSXS0191				
X7501	VSXS0191				
	1				
		BB1118			
		PIN HEADERS			
P1001	VJPS1154	CONNECTOR 2P			
P3001	VJPS0885	CONNECTOR 20P			
P4001	VJSS0888	FE CONNECTOR 2P			
P6001	VJPS0712	CONNECTOR 19P			
P6002	VJPS0881	CONNECTOR 8P			
P6201	VJPS0883	CONNECTOR 14P			
P6351	VJPS0712	CONNECTOR 19P			
		CWITCHES			
		SWITCHES			
SW6001	VSHS0058	LEAF SWITCH-SAFETY T	AB		
SW6002	VSSS0159	MODE SELECT SWITCH			
SW7001	VSSS0152	SELECT SWITCH			
		FUSE & PROTECTOR	₹		
F1001	VSFS0003A16	FUSE	125V	1.6A	<u> </u>
	OR VSFS0028A16	FUSE	125V	1.6A	<u>A</u>
	OR VSFS0030B16	FUSE	125V	1.6A	A
	OR XBA1C16NU100	FUSE	125V	1.6A	A
PR1001	ICP-N38-TP1	IC PROTECTOR		1.5A	
-	OR UNH000600A	IC PROTECTOR		1.5A	
PR1002	ICP-N38-TP1	IC PROTECTOR		1.5A	
	OR UNH000600A	IC PROTECTOR		1.5A	
	S.C. C.MIOOOOOA			JA	
		TRANSFORMER			
T1001	ETS28AD1F5NP				Â
	OR VTPS0034-1				Â
	OR VTPS0038-1				<u>A</u>
	OR VTPS0040-1				A
T4101	EIQ7QF018Q				
		DDINTED CIDCUIT D	OVEC	۸۵۵	EMPI V
		PRINTED CIRCUIT B	JAKD	ASS	LWDLT
E2	VEPS3054A	ADVANCE C.B.A.			▲ E.S.D.
E8	VEPS4017A	SPATIALIZER C.B.A.			A
		MISCELLANEOUS			
	1	A AV. JACK, COCKET			
JK3001	VJHS0727	A/V JACK SOCKET			
JK3001	VJHS0727				
E21	VJHS0727 VEQS0603	TUNER,UHF/VHF NR			
E21	VEQS0603	TUNER,UHF/VHF NR	UDIO		
E21 E23	VEQS0603 VJSS0896	TUNER, UHF/VHF NR FUSE HOLDER	UDIO		

		Part Name	Remarks
		ADVANCE C.B.A.	A
		INTEGRATED CIRCUITS	
IC3801	AN3296S	IC, LINEAR SYNC DETECTOR	
IC3802	MC14528BFEL	IC, CMOS STANDARD LOGIC MULTI	E.S.D.
		VIBRATOR	
IC3803	AN1393S	IC, LINEAR COMPARATOR	
IC3850	MC14538BFEL	IC, CMOS STANDARD LOGIC MULTI	E.S.D.
		VIBRATOR	
IC3854	MC74HC74AFL1	IC, CMOS STANDARD LOGIC DUAL	E.S.D.
TC4001	LMOSSM	FLIP FLOP	
IC4801	LM833M	IC, LINEAR OP AMP	
		TRANSISTORS	
Q3802	2SD601(R,S)	CHIP	
Q3803	2SB709(R,S)	CHIP	
Q3807	2SD601(R,S)	CHIP	
Q3808	2SD601(R,S)	CHIP	
Q3809	2SD601(R,S)	CHIP	
Q3810	UN2212	CHIP	
Q3856	XN4601	COMPLX CMP SI NPN/PNP CHIP	
Q3857	XN4601	COMPLX CMP SI NPN/PNP CHIP	
Q3858	UN2212	CHIP	
Q3860 Q3861	UN2212 UN2212	CHIP	
Q3862	UN2212 UN2212	CHIP	
Q3802 Q4801	2SD601(R,S)	CHIP	
Q4802	2SB709(R,S)	CHIP	
Q4803	UN2212	CHIP	
Q4804	UN2212	CHIP	
		DIODES	
D3802	MA151K	CHIP	
D3803	MA110	CHIP	
D3804	MA151K	CHIP	
D4801	MA151K	CHIP	
D4802	MA151K	CHIP	
		RESISTORS	
R3806	ERJ6GEYJ101V	RESISTORS MGF CHIP 1/10W 100	
	ERJ6GEYJ101V ERJ6GEYG122V		
R3808		MGF CHIP 1/10W 100	
R3808 R3809	ERJ6GEYG122V	MGF CHIP 1/10W 100 MGF CHIP +-2% 1/10W 1.2K	
R3808 R3809 R3810 R3811	ERJ6GEYG122V ERJ6GEYG102V	MGF CHIP 1/10W 100 MGF CHIP +-2% 1/10W 1.2K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 2.7K	
R3808 R3809 R3810 R3811 R3814	ERJ6GEYG122V ERJ6GEYG102V ERJ6GEYG102V ERJ6GEYG272V ERJ6GEYJ683V	MGF CHIP 1/10W 100 MGF CHIP +-2% 1/10W 1.2K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 2.7K MGF CHIP 1/10W 68K	
R3808 R3809 R3810 R3811 R3814 R3815	ERJ6GEYG122V ERJ6GEYG102V ERJ6GEYG102V ERJ6GEYG272V ERJ6GEYJ683V ERJ6GEYJ3333V	MGF CHIP 1/10W 100 MGF CHIP +-2% 1/10W 1.2K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 2.7K MGF CHIP 1/10W 68K MGF CHIP 1/10W 33K	
R3808 R3809 R3810 R3811 R3814 R3815 R3816	ERJ6GEYG122V ERJ6GEYG102V ERJ6GEYG102V ERJ6GEYG272V ERJ6GEYJ683V ERJ6GEYJ3333V ERJ6GEYJ473V	MGF CHIP 1/10W 100 MGF CHIP +-2% 1/10W 1.2K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 2.7K MGF CHIP 1/10W 6.8K MGF CHIP 1/10W 33K MGF CHIP 1/10W 47K	
R3808 R3809 R3810 R3811 R3814 R3815 R3816	ERJGGEYG122V ERJGGEYG102V ERJGGEYG102V ERJGGEYG272V ERJGGEYJ683V ERJGGEYJ333V ERJGGEYJ473V ERJGGEYJ331V	MGF CHIP 1/10W 100 MGF CHIP +-2% 1/10W 1.2K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 2.7K MGF CHIP 1/10W 68K MGF CHIP 1/10W 33K MGF CHIP 1/10W 47K MGF CHIP 1/10W 330	
R3808 R3809 R3810 R3811 R3814 R3815 R3816 R3817	ERJGGEYG122V ERJGGEYG102V ERJGGEYG102V ERJGGEYG272V ERJGGEYJ683V ERJGGEYJ333V ERJGGEYJ473V ERJGGEYJ331V ERJGGEYJ102V	MGF CHIP 1/10W 100 MGF CHIP +-2% 1/10W 1.2K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 2.7K MGF CHIP 1/10W 68K MGF CHIP 1/10W 33K MGF CHIP 1/10W 47K MGF CHIP 1/10W 330 MGF CHIP 1/10W 330	
R3808 R3809 R3810 R3811 R3814 R3815 R3816 R3817 R3818	ERJGGEYG122V ERJGGEYG102V ERJGGEYG102V ERJGGEYG272V ERJGGEYJ683V ERJGGEYJ333V ERJGGEYJ473V ERJGGEYJ331V	MGF CHIP 1/10W 100 MGF CHIP +-2% 1/10W 1.2K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 2.7K MGF CHIP 1/10W 68K MGF CHIP 1/10W 33K MGF CHIP 1/10W 47K MGF CHIP 1/10W 330	
R3808 R3809 R3810 R3811 R3814 R3815 R3816 R3817 R3818 R3818 R3819	ERJGGEYG122V ERJGGEYG102V ERJGGEYG102V ERJGGEYG272V ERJGGEYJG83V ERJGGEYJ333V ERJGGEYJ473V ERJGGEYJ331V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ182V	MGF CHIP 1/10W 100 MGF CHIP +-2% 1/10W 1.2K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 2.7K MGF CHIP 1/10W 33K MGF CHIP 1/10W 33K MGF CHIP 1/10W 33W MGF CHIP 1/10W 33W MGF CHIP 1/10W 33W MGF CHIP 1/10W 1.8K	
R3808 R3809 R3810 R3811 R3814 R3815 R3816 R3817 R3818 R3819 R3820	ERJGGEYG122V ERJGGEYG102V ERJGGEYG102V ERJGGEYG702V ERJGGEYJ683V ERJGGEYJ383V ERJGGEYJ473V ERJGGEYJ331V ERJGGEYJ102V ERJGGEYJ182V ERJGGEYJ182V ERJGGEYJ223V	MGF CHIP 1/10W 100 MGF CHIP +-2% 1/10W 1.2K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 2.7K MGF CHIP 1/10W 33K MGF CHIP 1/10W 33K MGF CHIP 1/10W 33W MGF CHIP 1/10W 33W MGF CHIP 1/10W 33W MGF CHIP 1/10W 1K MGF CHIP 1/10W 1.8K MGF CHIP 1/10W 1.8K MGF CHIP 1/10W 22K	
R3808 R3809 R3810 R3811 R3814 R3815 R3816 R3817 R3818 R3819 R3820 R3821	ERJ6GEYG122V ERJ6GEYG102V ERJ6GEYG102V ERJ6GEYG272V ERJ6GEYJ683V ERJ6GEYJ333V ERJ6GEYJ333V ERJ6GEYJ1473V ERJ6GEYJ102V ERJ6GEYJ182V ERJ6GEYJ182V ERJ6GEYJ182V ERJ6GEYJ331V	MGF CHIP 1/10W 100 MGF CHIP +-2% 1/10W 1.2K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 2.7K MGF CHIP 1/10W 2.7K MGF CHIP 1/10W 33K MGF CHIP 1/10W 33K MGF CHIP 1/10W 37K MGF CHIP 1/10W 37K MGF CHIP 1/10W 31K MGF CHIP 1/10W 1.8K MGF CHIP 1/10W 1.8K MGF CHIP 1/10W 22K MGF CHIP 1/10W 330	
R3808 R3809 R3810 R3811 R3814 R3815 R3816 R3817 R3818 R3819 R3820 R3821 R3822 R3823	ERJGGEYG122V ERJGGEYG102V ERJGGEYG102V ERJGGEYG272V ERJGGEYJ683V ERJGGEYJ333V ERJGGEYJ473V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ182V ERJGGEYJ182V ERJGGEYJ331V ERJGGEYJ331V ERJGGEYJ331V ERJGGEYJ331V	MGF CHIP 1/10W 100 MGF CHIP +-2% 1/10W 1.2K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 2.7K MGF CHIP 1/10W 2.7K MGF CHIP 1/10W 33K MGF CHIP 1/10W 34K MGF CHIP 1/10W 347K MGF CHIP 1/10W 347K MGF CHIP 1/10W 1.8K MGF CHIP 1/10W 1.8K MGF CHIP 1/10W 1.8K MGF CHIP 1/10W 330 MGF CHIP 1/10W 330 MGF CHIP 1/10W 330 MGF CHIP 1/10W 330	
R3808 R3809 R3810 R3811 R3811 R3814 R3815 R3816 R3817 R3818 R3819 R3820 R3821 R3822 R3822 R3822	ERJGGEYG122V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYJ683V ERJGGEYJ683V ERJGGEYJ333V ERJGGEYJ333V ERJGGEYJ331V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ182V ERJGGEYJ182V ERJGGEYJ223V ERJGGEYJ2331V ERJGGEYJ223V ERJGGEYJ223V ERJGGEYJ233V ERJGGEYJ331V ERJGGEYJ373V ERJGGEYJ373V ERJGGEYJ373V	MGF CHIP 1/10W 100 MGF CHIP +-2% 1/10W 1.2K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 2.7K MGF CHIP +-2% 1/10W 33K MGF CHIP 1/10W 33K MGF CHIP 1/10W 33K MGF CHIP 1/10W 33W MGF CHIP 1/10W 1K MGF CHIP 1/10W 1K MGF CHIP 1/10W 1K MGF CHIP 1/10W 12K MGF CHIP 1/10W 12K MGF CHIP 1/10W 10W MGF CHIP 1/10W 10K	
R3808 R3809 R3810 R3811 R3814 R3814 R3815 R3817 R3818 R3819 R3820 R3821 R3822 R3822 R3822 R3822 R38224 R3825	ERJGGEYG122V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYJG83V ERJGGEYJG83V ERJGGEYJ333V ERJGGEYJ473V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ182V ERJGGEYJ331V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V	MGF CHIP 1/10W 100 MGF CHIP +-2% 1/10W 1.2K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 2.7K MGF CHIP +-2% 1/10W 3.7K MGF CHIP 1/10W 33K MGF CHIP 1/10W 1K MGF CHIP 1/10W 1K MGF CHIP 1/10W 1.8K MGF CHIP 1/10W 1.8K MGF CHIP 1/10W 10W MGF CHIP 1/10W 10K MGF CHIP 1/10W 10K MGF CHIP 1/10W 120K MGF CHIP 1/10W 120K MGF CHIP 1/10W 10K MGF CHIP 1/10W 10K	
R3808 R3809 R3810 R3811 R3811 R3815 R3816 R3816 R3817 R3818 R3819 R3821 R3822 R3822 R3822 R3823 R3824 R3824 R3825	ERJ6GEYG122V ERJ6GEYG102V ERJ6GEYG102V ERJ6GEYG102V ERJ6GEYJ627V ERJ6GEYJ333V ERJ6GEYJ473V ERJ6GEYJ102V ERJ6GEYJ102V ERJ6GEYJ102V ERJ6GEYJ182V ERJ6GEYJ182V ERJ6GEYJ122V ERJ6GEYJ122V ERJ6GEYJ103V	MGF CHIP 1/10W 100 MGF CHIP +-2% 1/10W 1.2K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 2.7K MGF CHIP +-2% 1/10W 3.3K MGF CHIP 1/10W 33K MGF CHIP 1/10W 37K MGF CHIP 1/10W 37K MGF CHIP 1/10W 1.0W MGF CHIP 1/10W 1.8K MGF CHIP 1/10W 1.8K MGF CHIP 1/10W 1.8K MGF CHIP 1/10W 1.0K MGF CHIP 1/10W 1.0K MGF CHIP 1/10W 33W MGF CHIP 1/10W 1.0K	
R3808 R3809 R3810 R3811 R3811 R3815 R3816 R3816 R3817 R3818 R3819 R3821 R3822 R3822 R3823 R3824 R3825 R3825 R3825 R3826	ERJGGEYG122V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG272V ERJGGEYJ683V ERJGGEYJ333V ERJGGEYJ473V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ124V ERJGGEYJ124V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V	MGF CHIP 1/10W 100 MGF CHIP +-2% 1/10W 1.ZK MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 2.7K MGF CHIP +-2% 1/10W 3.X MGF CHIP 1/10W 1.X MGF CHIP 1/10W 2.X MGF CHIP 1/10W 2.X MGF CHIP 1/10W 2.X MGF CHIP 1/10W 4.X MGF CHIP 1/10W 2.X MGF CHIP 1/10W 3.X MGF CHIP 1/10W 4.X MGF CHIP 1/10W 1.X MGF CHIP 1/10W 4.X MGF CHI	
R3808 R3809 R3810 R3811 R3811 R3814 R3815 R3816 R3817 R3818 R3819 R3820 R3822 R3822 R3822 R3822 R3823 R3824 R3825 R3824 R3825 R3827 R3826 R3827	ERJGGEYG122V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG272V ERJGGEYJ683V ERJGGEYJ333V ERJGGEYJ473V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ124V ERJGGEYJ122V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V	MGF CHIP 1/10W 100 MGF CHIP +-2% 1/10W 1.2K MGF CHIP +-2% 1/10W 1.K MGF CHIP +-2% 1/10W 2.7K MGF CHIP +-2% 1/10W 2.7K MGF CHIP +-2% 1/10W 33K MGF CHIP 1/10W 33K MGF CHIP 1/10W 330 MGF CHIP 1/10W 1.K MGF CHIP 1/10W 2.X MGF CHIP 1/10W 1.K MGF CHIP 1/10W 2.X MGF CHIP 1/10W 2.X MGF CHIP 1/10W 2.X MGF CHIP 1/10W 1.K MGF CHIP 1/10W 2.X MGF CHIP 1/10W 2.X MGF CHIP 1/10W 1.K MGF CHIP 1/10W 1.K MGF CHIP 1/10W 2.X MGF CHIP 1/10W 1.K MGF CHIP 1/10W 2.X MGF	
R3808 R3809 R3810 R3811 R3811 R3814 R3815 R3816 R3817 R3818 R3819 R3820 R3822 R3822 R3822 R3822 R3822 R3823 R3824 R3825 R3826 R3827 R3828	ERJGGEYG122V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG272V ERJGGEYJ683V ERJGGEYJ333V ERJGGEYJ3331V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ123V ERJGGEYJ223V ERJGGEYJ224V ERJGGEYJ103V ERJGGEYJ102V	MGF CHIP	
R3808 R3809 R3810 R3811 R3814 R3814 R3815 R3816 R3817 R3818 R3819 R3820 R3822 R3822 R3822 R3822 R3823 R3824 R3825 R3826 R3827 R3827 R3828	ERJGGEYG122V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG272V ERJGGEYJ683V ERJGGEYJ333V ERJGGEYJ333V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ182V ERJGGEYJ2331V ERJGGEYJ23V ERJGGEYJ23V ERJGGEYJ23V ERJGGEYJ103V	MGF CHIP 1/10W 100 MGF CHIP +-2% 1/10W 1.2K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 2.7K MGF CHIP +-2% 1/10W 3.7K MGF CHIP 1/10W 33K MGF CHIP 1/10W 1K MGF CHIP 1/10W 10K MGF CHIP 1/10W 2.2K MGF CHIP 1/10W 10K MGF CHIP 1/10W 2.2K MGF CHIP 1/10W 10K MGF CHIP 1/10W 2.2K MGF CHIP 1/10W 2.2K MGF CHIP 1/10W 2.2K MGF CHIP 1/10W 1.2K MGF CHIP 1/10W 2.2K MGF CHIP 1/10W 2.2K MGF CHIP 1/10W 1.2K MGF CHIP 1/10W 1.2K MGF CHIP 1/10W 1.2K MGF CHIP 1/10W 1.2K	
R3808 R3809 R3810 R3811 R3811 R3811 R3815 R3816 R3817 R3818 R3819 R3820 R3821 R3822 R3823 R3824 R3825 R3827 R3826 R3827 R3828 R3828 R3828 R3838	ERJGGEYG122V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG272V ERJGGEYJ683V ERJGGEYJ333V ERJGGEYJ3331V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ123V ERJGGEYJ223V ERJGGEYJ224V ERJGGEYJ103V ERJGGEYJ102V	MGF CHIP	
R3808 R3809 R3810 R3811 R3811 R3811 R3815 R3816 R3816 R3817 R3818 R3821 R3822 R3822 R3822 R3822 R3823 R3824 R3822 R3823 R3824 R3827 R3828 R3828 R3828	ERJ6GEYG122V ERJ6GEYG102V ERJ6GEYG102V ERJ6GEYG102V ERJ6GEYG102V ERJ6GEYJ683V ERJ6GEYJ473V ERJ6GEYJ473V ERJ6GEYJ1473V ERJ6GEYJ1473V ERJ6GEYJ182V ERJ6GEYJ182V ERJ6GEYJ182V ERJ6GEYJ1223V ERJ6GEYJ1223V ERJ6GEYJ103V ERJ6GEYJ103V ERJ6GEYJ124V ERJ6GEYJ103V	MGF CHIP	
R3808 R3809 R3810 R3811 R3811 R3814 R3815 R3816 R3817 R3818 R3819 R3821 R3822 R3822 R3822 R3822 R3822 R3822 R3823 R3824 R3825 R3826 R3827 R3828 R3828 R3827 R3828 R3828 R3829 R3833 R3833 R3833	ERJGGEYG122V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG272V ERJGGEYJ333V ERJGGEYJ473V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ103V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V ERJGGEYJ103V	MGF CHIP	
R3808 R3809 R3810 R3811 R3814 R3815 R3816 R3817 R3818 R3819 R3820 R3821 R3822 R3823 R3824 R3825 R3826 R3827 R3828 R3827 R3828 R3827 R3828 R3829 R3833 R3831 R3831 R3835 R3837 R3838	ERJGGEYG122V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG272V ERJGGEYJ683V ERJGGEYJ3331V ERJGGEYJ3331V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ103V	MGF CHIP	
R3808 R3809 R3810 R3811 R3811 R3814 R3815 R3816 R3817 R3818 R3819 R3820 R3822 R3822 R3822 R3822 R3823 R3824 R3822 R3823 R3824 R3825 R3826 R3827 R3827 R38387 R383888833 R3839	ERJGGEYG122V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYJ683V ERJGGEYJ333V ERJGGEYJ3331V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ103V ERJGGEYJ124V ERJGGEYJ124V ERJGGEYJ103V	MGF CHIP	
R3808 R3809 R3810 R3811 R3811 R3814 R3815 R3816 R3817 R3818 R3819 R3820 R3821 R3822 R3823 R3824 R3825 R3827 R3828 R3829 R3829 R3833 R3834 R3835 R3837 R3838 R3839 R3839 R3840 R3841	ERJGGEYG122V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG272V ERJGGEYJ683V ERJGGEYJ333V ERJGGEYJ473V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ103V ERJGGEYJ104V ERJGGEYG153V	MGF CHIP	
R3808 R3809 R3810 R3811 R3811 R3814 R3815 R3816 R3817 R3818 R3819 R3821 R3822 R3822 R3822 R3822 R3822 R3823 R3824 R3825 R3827 R3828 R3827 R3828 R3828 R3829 R3833 R3834 R3838 R38384 R38387 R38388 R38388 R38388888888888888	ERJGGEYG122V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG272V ERJGGEYJ683V ERJGGEYJ333V ERJGGEYJ473V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ103V ERJGGEYJ104V ERJGGEYJ103V ERJGGEYJ104V ERJGGEYJ104V ERJGGEYJ105V ERJGG	MGF CHIP 1/10W 100 MGF CHIP +-2% 1/10W 1.2K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 2.7K MGF CHIP 1/10W 3.K 68K MGF CHIP 1/10W 33K 30K MGF CHIP 1/10W 33W 30K MGF CHIP 1/10W 1.8K 330 MGF CHIP 1/10W 1.0K 330 MGF CHIP 1/10W 1.0K 330 MGF CHIP 1/10W 1.0K 340 MGF CHIP 1/10W 1.0K 340 MGF CHIP 1/10W 1.0K 347	
R3808 R3809 R3810 R3811 R3811 R3815 R3816 R3817 R3818 R3819 R3820 R3821 R3822 R3823 R3824 R3825 R3826 R3827 R3828 R3827 R3828 R3827 R3828 R3829 R3837 R3838 R3837 R3838 R3831 R3835 R3837 R3838 R3839 R3841 R3841 R3843 R3845	ERJGGEYG122V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYJ683V ERJGGEYJ333V ERJGGEYJ3331V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ103V ERJGGEYG123V ERJGGEYG13V ERJGGEYG13V ERJGGEYG13V ERJGGEYG13V ERJGGEYG13V ERJGGEYG13V ERJGGEYG13V ERJGGEYG15V	MGF CHIP	
R3806 R3808 R3809 R3811 R3814 R3815 R3816 R3817 R3818 R3819 R3820 R3821 R3822 R3823 R3824 R3825 R3827 R3828 R3827 R3828 R3827 R3828 R3833 R3834 R3835 R3837 R3838 R3839 R3840 R3841 R3843 R3843 R3844 R3843 R3844 R3845 R3846 R3847	ERJGGEYG122V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG102V ERJGGEYG272V ERJGGEYJ683V ERJGGEYJ333V ERJGGEYJ473V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ102V ERJGGEYJ103V ERJGGEYJ104V ERJGGEYJ103V ERJGGEYJ104V ERJGGEYJ104V ERJGGEYJ105V ERJGG	MGF CHIP 1/10W 100 MGF CHIP +-2% 1/10W 1.2K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 1K MGF CHIP +-2% 1/10W 2.7K MGF CHIP 1/10W 3.K 68K MGF CHIP 1/10W 33K 30K MGF CHIP 1/10W 33W 30K MGF CHIP 1/10W 1.8K 330 MGF CHIP 1/10W 1.0K 330 MGF CHIP 1/10W 1.0K 330 MGF CHIP 1/10W 1.0K 340 MGF CHIP 1/10W 1.0K 340 MGF CHIP 1/10W 1.0K 347	

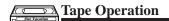
Ref. No.	Part No.	Part Name)	Remarks
R3848	ERJ6GEYG153V	MGF CHIP	1/10W 15K	
R3849	ERJ6GEYG123V	MGF CHIP +-2%	1/10W 12K	
R3850	ERJ6GEYG684V	MGF CHIP +-2%	1/10W 680K	
R3851	ERJ6GEYG154V	MGF CHIP +-2%	1/10W 150K	
R3852	ERJ6GEYG223V	MGF CHIP +-2%	1/10W 22K	
R3853	ERJ6GEYJ224V	MGF CHIP	1/10W 220K	
R3866	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R3867	ERJ6GEYJ563V	MGF CHIP	1/10W 56K	
R3868	ERJ6GEYJ563V	MGF CHIP	1/10W 56K	
R3869	ERJ6GEYJ392V	MGF CHIP	1/10W 3.9K	
R4802	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R4803	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
R4804	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
	+	MGF CHIP		
R4805	ERJ6GEYJ153V		1/10W 15K	
R4806	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R4807	ERJ6GEYJ473V	MGF CHIP	1/10W 47K	
R4808	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	+
R4810	ERJ6GEYJ152V	MGF CHIP	1/10W 1.5K	
R4811	ERJ6GEYJ153V	MGF CHIP	1/10W 15K	
R4812	ERJ6GEYJ332V	MGF CHIP	1/10W 3.3K	
R4813	ERJ6GEYJ392V	MGF CHIP	1/10W 3.9K	
R4815	ERJ6GEYJ122V	MGF CHIP	1/10W 1.2K	
R4817	ERJ6GEYJ333V	MGF CHIP	1/10W 33K	
R4818	ERJ6GEYJ223V	MGF CHIP	1/10W 22K	
R4819	ERJ6GEYJ102V	MGF CHIP	1/10W 1K	
R4850	ERJ6GEYJ103V	MGF CHIP	1/10W 10K	
-	1			
		CAPACITORS		
C3803	ECUV1H121JCN	C CHIP +-5%	50V 120P	
C3804	ECUV1H270JCN	C CHIP +-5%	50V 27P	
C3805	ECUV1H471JCN	C CHIP +-5%	50V 470P	
C3806	ECUV1H222KBN	C CHIP +=3%	50V 470P	
C3807	ECEA1CKA100	ELECTROLYTIC	16V 10	
C3808	ECEA1CKA101	ELECTROLYTIC	16V 100	
C3809	ECEA1CKA100	ELECTROLYTIC	16V 10	
C3810	ECUV1H103ZFN	C CHIP +80%-20%		
C3811	ECEA0JKA101	ELECTROLYTIC	6.3V 100	
C3812	ECUV1H121JCN	C CHIP +-5%	50V 120P	
C3813	ECEA0JKA330	ELECTROLYTIC	6.3V 33	
C3814	ECUV1H392KBN	C CHIP	50V 3900P	
C3815	ECUV1E104ZFN	C CHIP +80%-20%	25V 0.1	
C3816	ECUV1H103KBN	C CHIP	50V 0.01	
C3817	ECQV1H474JM	POLYESTER +-5%	50V 0.47	AKE
C3818	ECUV1H103ZFN	C CHIP +80%-20%	50V 0.01	
C3819	ECQV1H474JM	POLYESTER +-5%	50V 0.47	AKE
C3820	ECUV1H103ZFN	C CHIP +80%-20%		
C3822	ECUV1H391JCN	C CHIP +-5%	50V 390P	+
C3824	ECUV1H103ZFN	C CHIP +80%-20%		
C3825	ECEA1CKA470	ELECTROLYTIC	16V 47	
C3826	ECUV1H121JCN	C CHIP +-5%	50V 120P	
C3850	ECUV1H103ZFN	C CHIP +80%-20%		
C3851	ECUV1E104KBN	C CHIP	25V 0.1	+
C3852	ECUV1E104KBN	C CHIP	25V 0.1	
C3855	ECEA0JKA470	ELECTROLYTIC	6.3V 47	
C3856	ECUV1H103ZFN	C CHIP +80%-20%	50V 0.01	
C4801	ECUV1H561JCN	C CHIP +-5%	50V 560P	
C4802	ECEA1CKA100	ELECTROLYTIC	16V 10	
C4803	ECEA1CKA100	ELECTROLYTIC	16V 10	
C4804	ECEA1HKA010	ELECTROLYTIC	50V 1	
C4805	ECEA1HKA010	ELECTROLYTIC	50V 1	
C4808	ECUV1E104ZFN	C CHIP +80%-20%		
C4809	ECUV1H103ZFN	C CHIP +80%-20%		
-	1			
	1	COILS		
L3801	ELESN101KA		100	
L3802	ELESN101KA		100	
L3804	ELESN680KA		68	
			- 00	
		PIN HEADERS		
	V1H20220			
D2001	VJHS0338	PACK PIN 8P		
P3801		PACK PIN 4P		1
P3801 P3802	VJHS0334			
	VJHS0334			

Ref. No.	Part No.	Part Name	Remarks
		OPERATION C.B.A.	
		INTEGRATED CIRCUITS	
IC6301	T47C215NF831	IC, 4BIT MICROCONTROLLER	E.S.D.
		INDICATOR PANEL	
IC6401	D17217GT-538	IC, 4BIT MICROCONTROLLER CATV	E.S.D.
IC6402	MN13801-R	IC, LOGIC RESET	E.S.D.
		TRANSISTORS	
Q6401	2SD2191TL2	TRANSISTORS	
		DIODES	
D6303	MA165		
D6305	MA165		
D6306	MA165		
D6307	MA165		
D6308	MA165		
D6324	MA4068-M	ZENER 6.8V	
D6350		0.07	
	MA165	+	
D6351	MA165	 	
D6401	SID1010BXM	IR LED	
D6402	SID1010BXM	IR LED	
D6403	SID1010BXM	IR LED	
D7801	MA4051-M	ZENER 5.1V	
D7802	MA4051-M	ZENER 5.1V	
R6310	ERJ6GEYJ223V	RESISTORS MGF CHIP 1/10W 22K	
R6315	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6316	ERJ6GEYJ101V	MGF CHIP 1/10W 100	
R6317	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6318	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6346	ERDS2TJ470	47	
R6350	ERDS2TJ270	27	
R6351	ERDS2TJ270	27	
R6353	ERDS2TJ473	47K	
R6358	ERJ6GEYJ472V	MGF CHIP 1/10W 4.7K	
R6359	ERDS2TJ3R3	3.3	
R6401	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6402	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6403	ERDS2TJ220	22	
R6404	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6405	ERJ6GEYJ102V	MGF CHIP 1/10W 1K	
R6406	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R6407	ERJ6GEYJ223V	MGF CHIP 1/10W 22K	
R7801	ERJ6GEYJ750V		
			_
R7802	ERJ6GEY0R00V		•
R7803	ERJ6GEY0R00V	MGF CHIP 1/10W 0	•
		CARACITORS	
C6305	ECEA0JKA470	CAPACITORS ELECTROLYTIC 6.3V 47	
C6306	ECA0JM471		
C6307	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	
C6308	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	
C6315	ECA1HM220I	ELECTROLYTIC 50V 22	
C6401	ECUV1H103ZFN	C CHIP +80%-20% 50V 0.01	
C6402	ECEA0JKA470	ELECTROLYTIC 6.3V 47	
C6403	ECUV1E104ZFN	C CHIP +80%-20% 25V 0.1	
X6301	EF0EC8004T4	CRYSTAL OSCILLATOR	
X6401	EF0GC4004T4		
	1		
		PIN HEADERS	
P6301	VJSS0761	CONNECTOR 19P	
P6302	VJSS0761	CONNECTOR 19P	
P6310	VJSS0825		

(E27, E31, E34, E35, E37, E38, E60)

Ref. No.	Part No.	Part Name	Remarks
		SWITCHES	
SW6301	EVQ21405R	PUSH SWITCH	
SW6302	EVQ21405R	PUSH SWITCH	
SW6305	EVQ21405R	PUSH SWITCH	
SW6306	EVQ21405R	PUSH SWITCH	
SW6309	EVQ21405R	PUSH SWITCH	
SW6310	EVQ21405R	PUSH SWITCH	
SW6311	EVQ21405R	PUSH SWITCH	
SW6312	EVQ21405R	PUSH SWITCH	
		MISCELLANEOUS	
		WIGGELEANLOGS	
DP6301	VSZS0125	DISPLAY TUBE	
JK7801	VJHS0729	FRONT A/V JACK SOCKET	
E27	PNA4617M00HD	INFRARED RECEIVER UNIT	
E31	VJRS0091	CONNECTION PIECE	
		LED SPACER	
E34	VMXS0581		
E35	VGMS0611	LED HOLDER	
E37	VGMS0613	DISPLAY TUBE HOLDER -L	
E38	VGMS0614	DISPLAY TUBE HOLDER -R	
E60	VSSS0156	SHUTTLE UNIT	
	1.222220		
		SUMMARY OF "E" ITEM NU REFER TO ELECTRICAL PA	ARTS LIST
		FOR MODEL INFORMATION	V
E1	VEPS6032HA	MAIN C.B.A.	
E2	VEPS3054A	ADVANCE C.B.A.	
E4	VEPS8029A	OPERATION C.B.A.	
E8	VEPS4017A	SPATIALIZER C.B.A.	
E21	VEQS0603	TUNER, UHF/VHF NR	
E23	VJSS0896	FUSE HOLDER	
E26	VCRS0213	IC, HYBRID MTS/SAP AUDIO	
		PROCESS	
E27	PNA4617M00HD	INFRARED RECEIVER UNIT	
E31	VJRS0091	CONNECTION PIECE	
E34	VMXS0581	LED SPACER	
E35	VGMS0611	LED HOLDER	
E37	VGMS0613	DISPLAY TUBE HOLDER -L	
E38	VGMS0614	DISPLAY TUBE HOLDER -R	
E60	VSSS0156	SHUTTLE UNIT	

COMMERCIAL ADVANCE OPERATION GUIDE



COMMERCIAL ADVANCE™

COMMERCIAL ADVANCE™ detects and marks the beginning and and points of commercials on your tape for recordings over 15 minutes in length. When the COMMERCIAL ADVANCE™ marked tape is played back, the VCR automatically advances through the commercial segments at high speed. You can also set this feature to Manual so as to have more control over the advance process. The effectiveness of this system can vary due to differences in the way television stations broadcast.

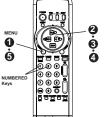


TV is tuned to the VCR channel (CH 3 or 4).

COMMERCIAL ADVANCE™ Marking

When the COMMERCIAL ADVANCE RECORD setting is ON, the VCR automatically rewinds the tape after a recording has been made and marks the beginning and end of any detected commercial blocks. After marking is done, the tape is returned to the end of the eccording. Commercials are not erreaded from the tape.











PUSH 1 KEY PUSH 2 KEY PUSH MENU KEY

SELECT: ▲ ▼ KEY SET : ► KEY END : MENU KE

ON Timer recordings, VCR Plus+ recording Recordings are marked automatically

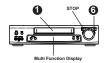
The screen at right appears when STOP is pushed during a normal recording. Select one of the following Post to the Post of the



Push MENU to <u>cancel</u> the marking of this recording. OFF The VCR will not mark commercials.
Off should be selected when you are editing or dubbing a tape, or when you simply do not wish to use this feature.



Push MENU three times to return to the normal



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This feature allows you to turn your existing unmarked tapes in Commercial Advance tapes. The VCR will scan the previously recorded tape for commercial segments, and then mark it.



Recorded segments must be at least 15 minutes in length or marking cannot be performed.
 If necessary, push REW or FF to place the tape at the a recorded segment of over 15 minutes for commercia





Push AV to select
"SET UP VCR," and then
push to display the
"SET UP VCR" screen.







Push AV to select
"MARK UNMARKED
TAPE," and then push
to display the screen START MARKING FROM CURRENT TAPE POSITION at right.





NOTE:
If 5 minutes after marking is started an already marked portion
of tape is encountered, a message will appear to alert you.
Push STOP to mark the marked portion of tape.
If within 15 minutes after marking has begun, an already
marked portion of tape is encountered, a message will appear
to alert you. Push STOP to remove the message.



- The selection made in step 4 remains set unless there is a power outage in which case the original factory setting will be restored.
- will de fisiolés.

 Well de fisiolés.

 The VCR will wait until all recording a final final formation, the VCR will wait until all recording aire inhighed before matrice fines.

 The VCR can store up to 4 programs or 40 commercial blocks in memory at one time. As marking is performed memory strongs sposa is replenished. However, it altrongs capacity is exceeded, the remaining commercials will not be marked. However, it altrongs capacity is exceeded, the remaining commercials will not be marked. However, it altrongs capacity is exceeded, the remaining commercials will not be marked.

Tape Operation (continued)

COMMERCIAL ADVANCE™

Check list before you begin

COMMERCIAL ADVANCE® is a trademark of SRT, Inc.
A Jerry Iggulden invention licensed in association with Arthur D. Little Enterprises, Inc.

U.S.Pat. No. 5,333,091 other patents pending

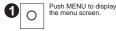
NOTE

☐ All connections have been made and the One Time Setup is completed.
☐ Your TV and VCR are plugged in and turned on. TV is tuned to the VCR channel (CH 3 or 4).

COMMERCIAL ADVANCE™ Playback

When playing back recordings which have been marked using the COMMERCIAL ADVANCE™ feature, you can either set the VCR to automatically advance through marked commercial blocks, or set it so that commercials are only skipped on your command.





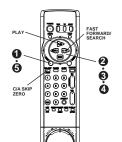
















The VCR will automatically advance through marked commercial blocks recorded on the tape and then resume playback. AUTO

MANU(al) The VCR will advance through commercials only when C/A SKIP ZERO is pushed.

Playback will resume when the end mark of a commercial block is found, or a new recording or blank portion is detected, or after eight minutes.



Push MENU three times to return to the normal screen

NOTES

- The selection made in step 4 remains set unless there is a power outage in which case the original factory setting will be restored.
- seming win on restorce.

 A commercial may not be skopped if playback is started in the middle of a commercial, only a single isolated commercial is shown, or an individual commercial is longer than one minute. Push FAST FORWARD (SEARCH to qualify advance frough the commercial is longer than one minute. Push FAST FORWARD (SEARCH to qualify advance frough the commercial is loss than one minute. Or there are frequent dark and quiet scenes. Rewind the tape to the beginning of the skepped portion and push PLAY.

The most commonly asked questions about COMMERCIAL ADVANCE™ are answered below

Question	Answer
How fast does the VCR advance through commercials?	The VCR advances through a 3-minute commercial block in about 8 to 12 seconds if the tape speed is SLP. In SP, it takes about 25 to 35 seconds.
Are commercials advanced through only when I playback a recording?	Yes. The commercials are not marked until after the recording is finished.
Are commercials still recorded on the tape in case I choose to view them sometime?	Yes. By setting the C/A PLAYBACK to MANU(al), you can view or advance through commercials as desired.
Does COMMERCIAL ADVANCE™ work in all recording speeds?	Yes. COMMERCIAL ADVANCE™ works in SP, LP, and SLP.
Does the VCR advance through commercials each time I playback tapes which were recorded using COMMERCIAL ADVANCE™?	Yes. As long as C/A PLAYBACK is set to AUTO, the VCR should advance through commercials each time the tape is played back.
After marking commercials, does the VCR stop at the end of the tape, or rewind to the beginning?	The tape stops at the end of the recording so that any additional timer recordings can be performed.
Can I play my COMMERCIAL ADVANCE™ recordings in non-COMMERCIAL ADVANCE™ VCRs?	Yes. COMMERCIAL ADVANCE™ marked recordings will play in non-COMMERCIAL ADVANCE™ VCRs, but commercials will not be advanced through.
Does the marking process interfere with other programmed recordings?	No. If the interval between 2 or more timer programs is not sufficient to mark the recording, marking will be done after all recordings are complete and the power goes off.
What happens if I cancel the marking in progress so I can use the VCR?	Marking will be resumed when the VCR's power is turned off as long as the tape has not been ejected.
What if part of my program is advanced through along with the commercials?	Rewind the tape to where the program should have started, and push PLAY to view the program.
Can I mark a recording that was made an another VCR?	Yes. See "Marking an Unmarked Tape."

- Because of the various ways in which commercials are broadcast, the VCR may not be able to recognize all
- commercials. If a timer recording is scheduled for the middle of the night, please be aware that the VCR will make some noise as it rewinds and fast forwards the tape while marking commercials.

U.S.Pat. No. 5,333,091 other patents pending

DISASSEMBLY/ASSEMBLY PROCEDURES

DISASSEMBLY/ASSEMBLY PROCEDURES OF CABINET

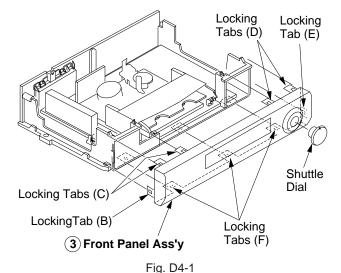
Front Panel Ass'y

Disassembly Procedure

- 1. Pull off the Shuttle Dial.
- 2. Release Locking Tab (B) on the left side.
- 3. Release 2 Locking Tabs (C) on the top left.
- 4. Release 2 Locking Tabs (D) on the top right.
- 5. Release Locking Tab (E) on the right side.
- Release 3 Locking Tabs (F) on the bottom side. Then, remove the Front Panel Ass'y.

Note:

Work carefully so as not to break the Tabs.



Reassembly Notes

1. Installation of Front Panel Ass'y

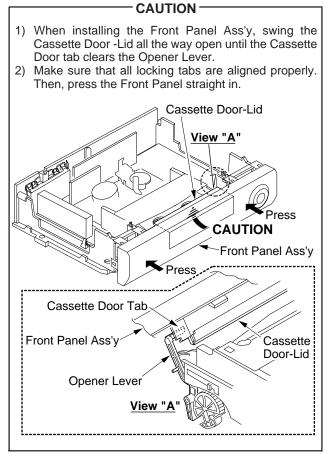


Fig. D4-2

2. Installation of Shuttle Dial

1) Press the Shuttle Dial into place so that the center line is at top as shown.

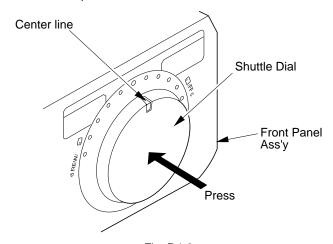


Fig. D4-3

Operation C.B.A.

Disassembly Procedure

1. Release 3 Locking Tabs (G).

Note:

Work carefully so as not to break the Tabs.

2. Disconnect 2 Connectors P6301 and P6302 on the Operation C.B.A.

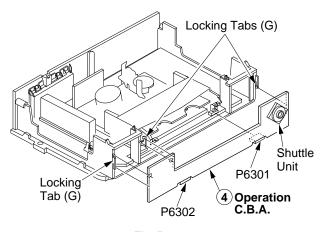


Fig. D5-1

Note:

When removing the Shuttle Unit from the Operation C.B.A., release 2 Locking Tabs (K) and disconnect Connector P6310 as shown below.

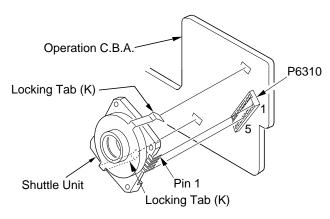


Fig. D5-2

Reassembly Notes

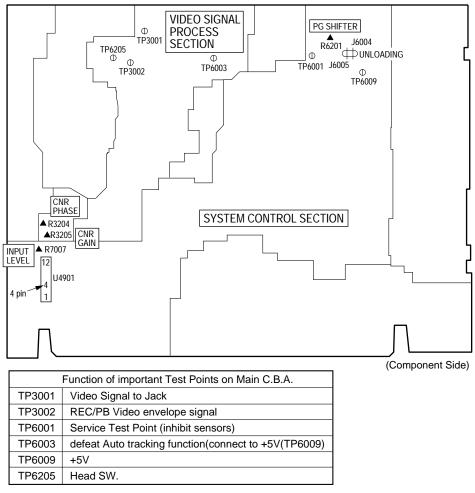
Installation of Shuttle Unit

1) Make sure the Locking Tabs (K) and pins are lined up, install the Shuttle Unit to the Operation C.B.A.

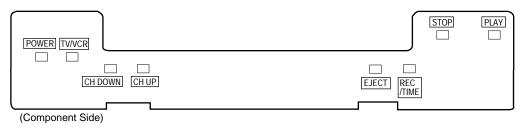
ADJUSTMENT PROCEDURES

TEST POINTS AND CONTROL LOCATION

Main C.B.A.



Operation C.B.A.

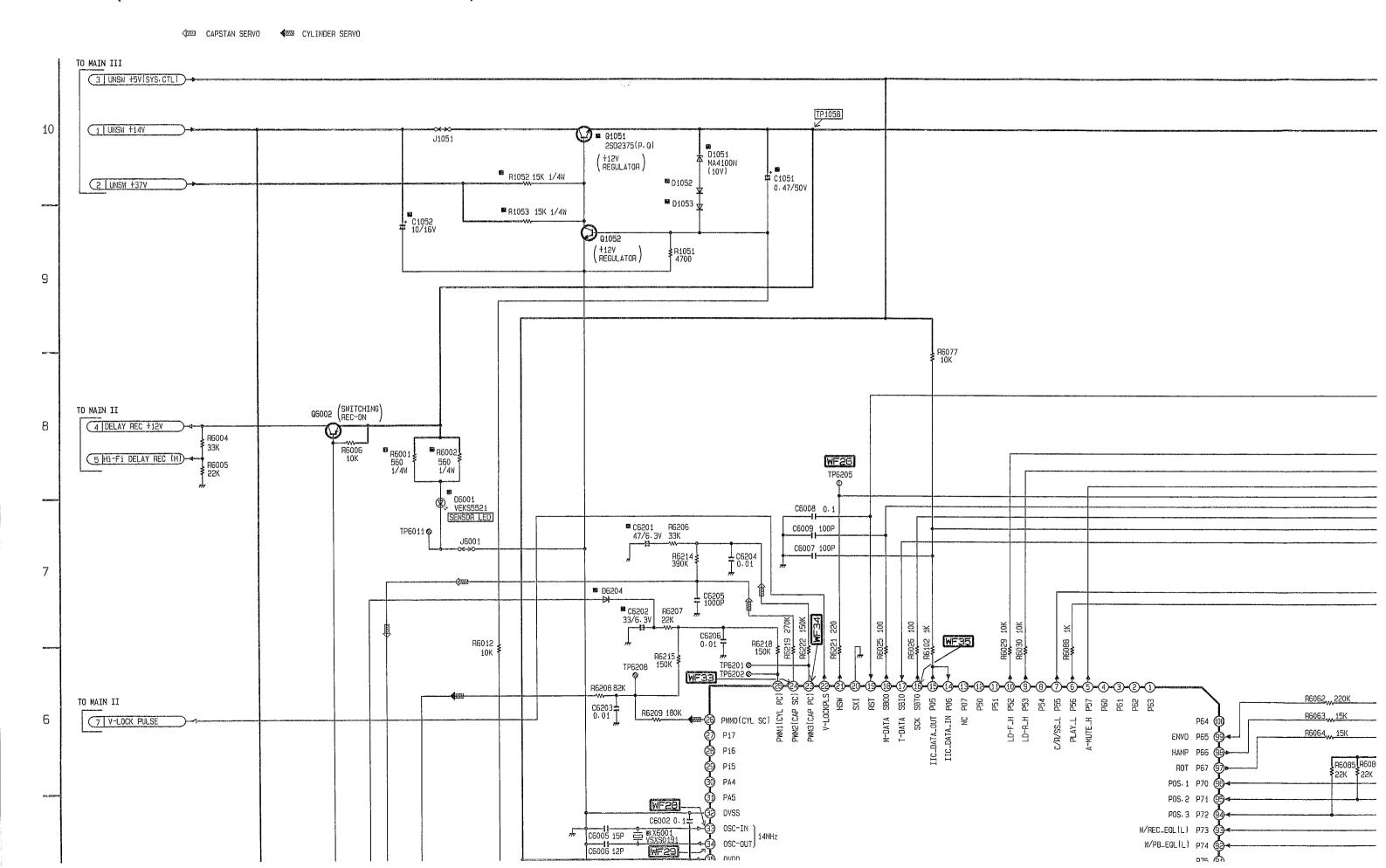


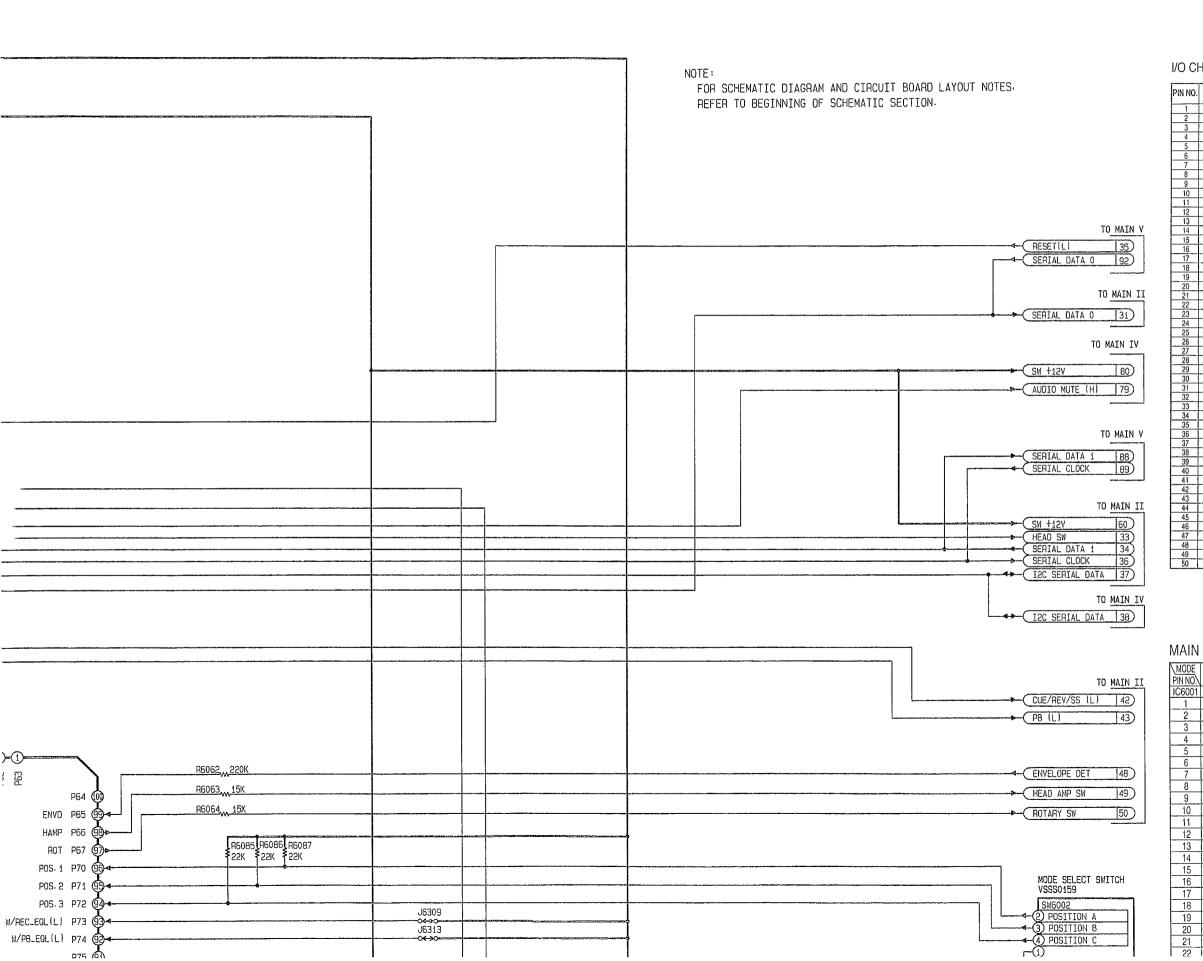
Test Point Information

① Test Point with a jumper wire across a hole in the P.C.B.

- MEMO -

MAIN I (POWER SUPPLY/SYSTEM CONTROL/SERVO) / JUNCTION SCHEMATIC DIAGRAM



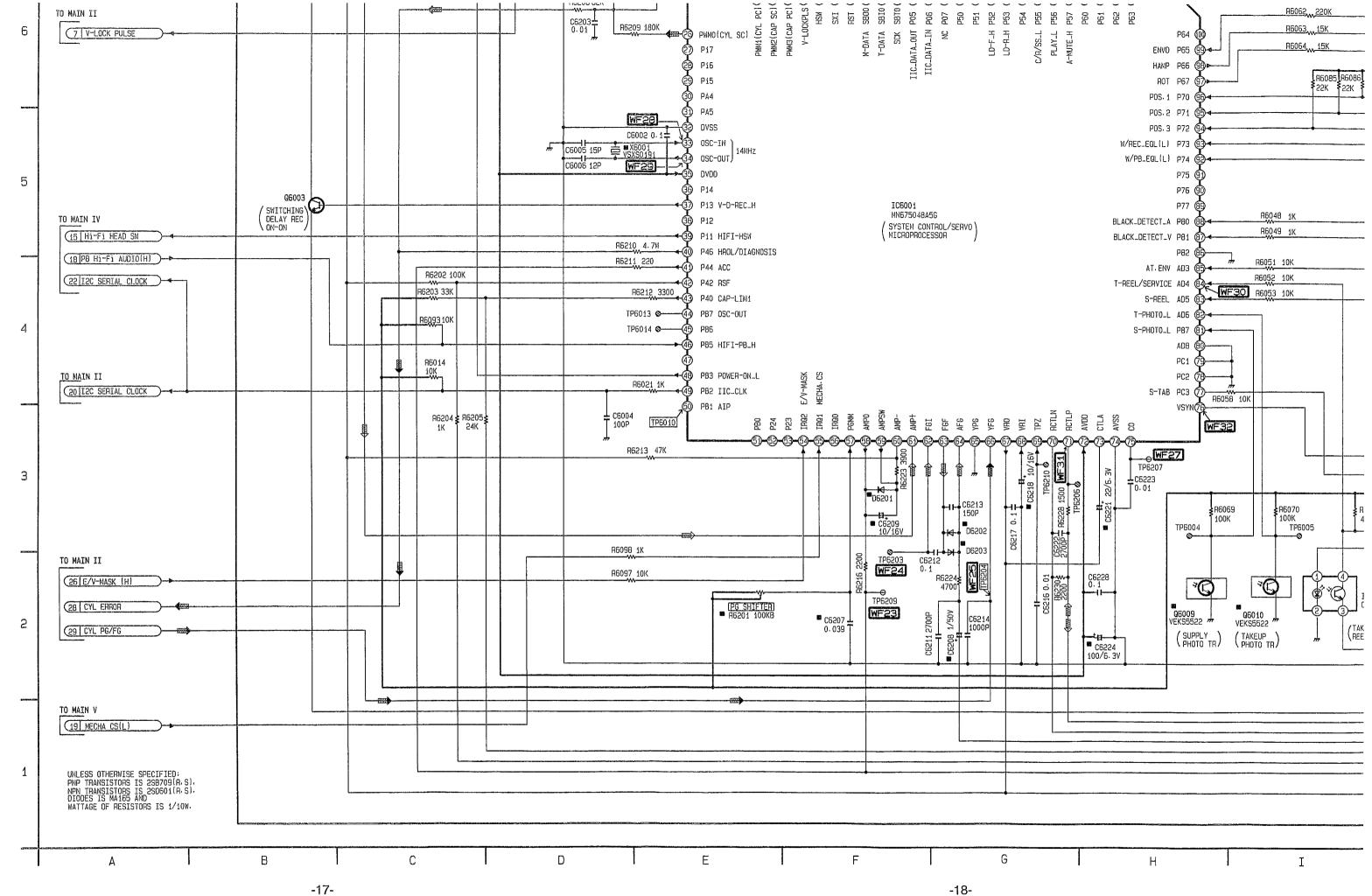


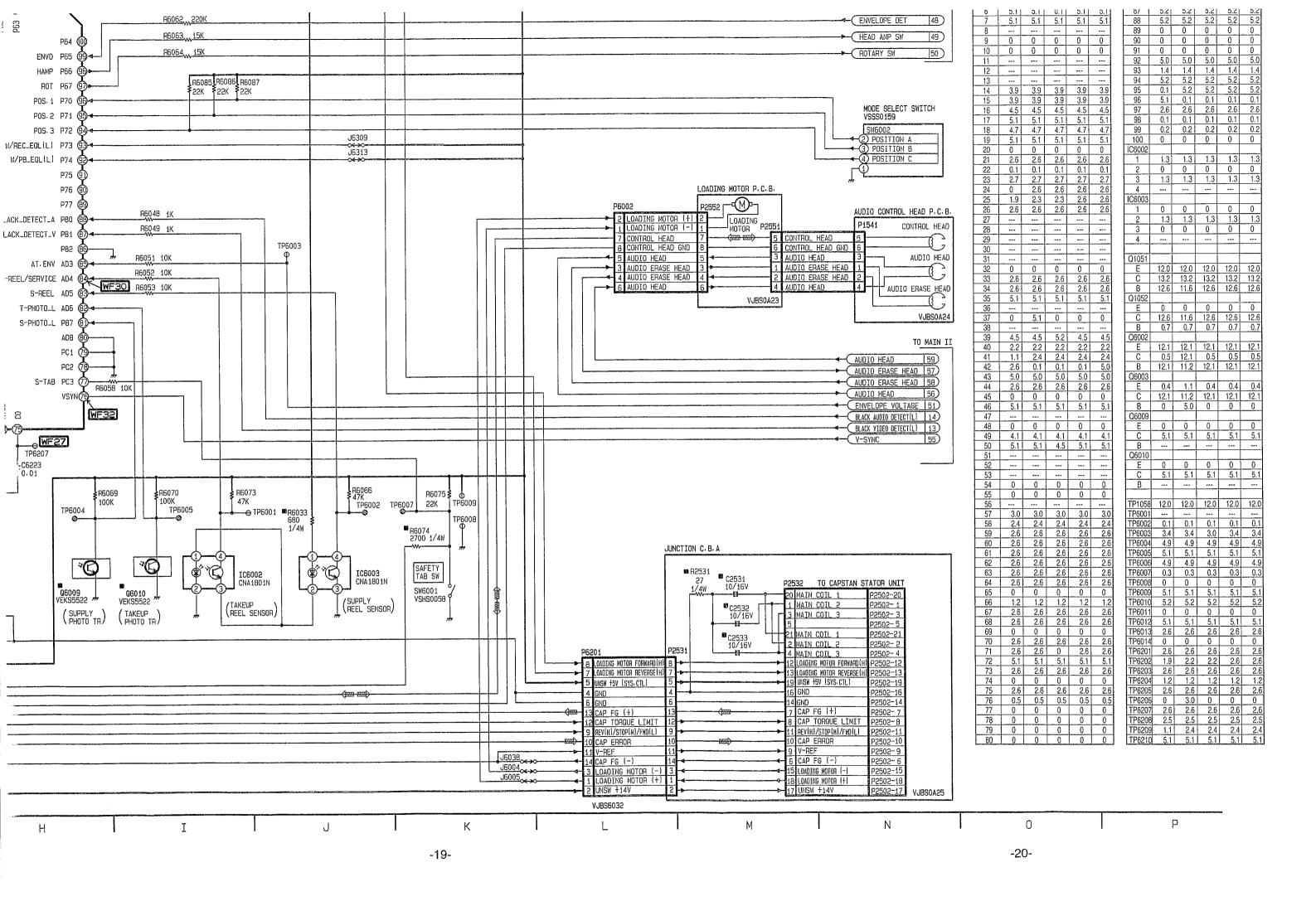
I/O CHART FOR IC6001(MN675048A5G)

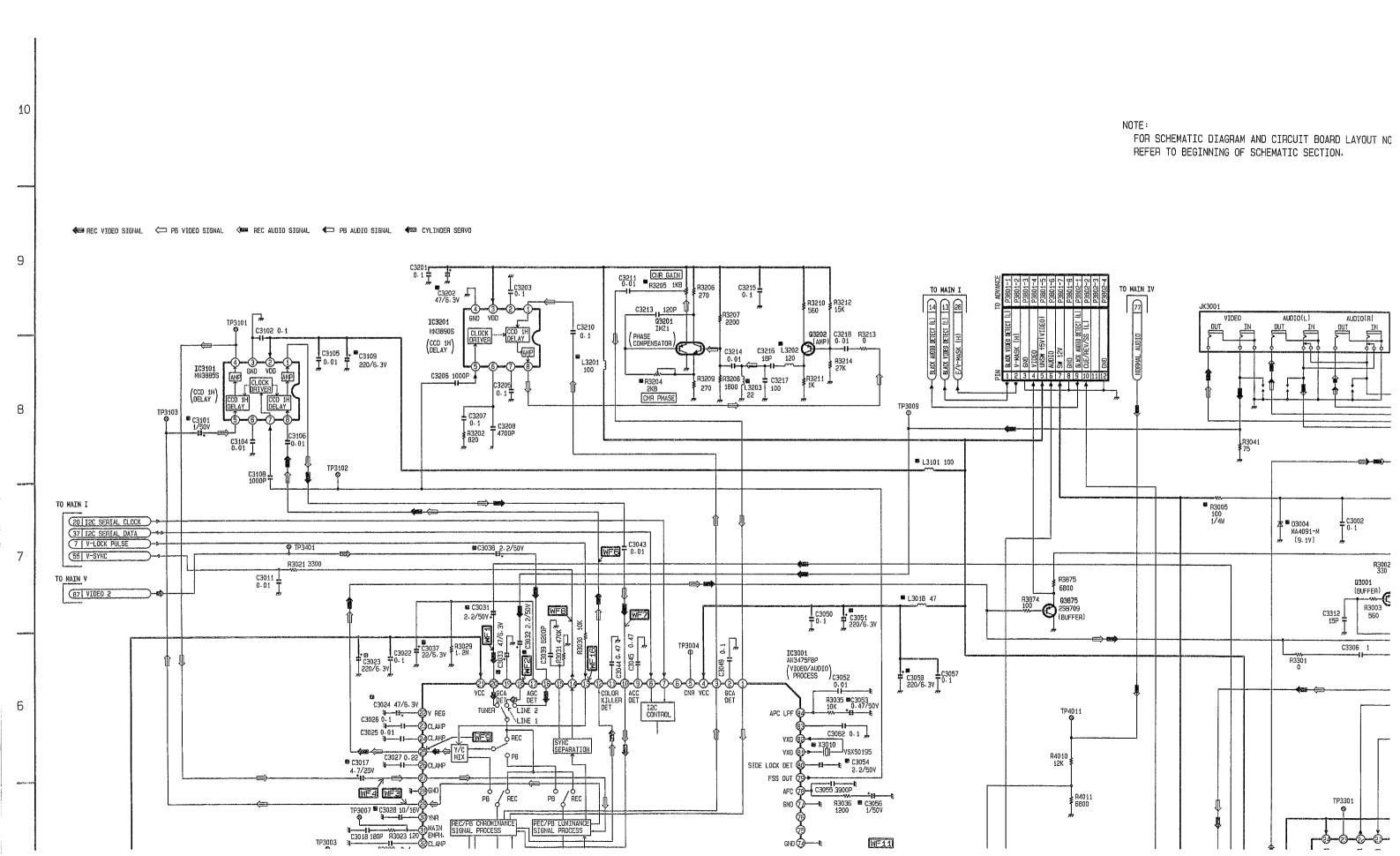
NO.	1/0	FUNCTION	PIN NO.	1/0	FUNCTION
1		(Not used)	51		(Not used)
2		(Not used)	52		(Not used)
3		(Not used)	53		(Not used)
4		(Not used)	54	1	V-MASK (H)
5	0	AUDIO MUTE (H)	55	i	IC6001 CS (L)
6	ō	PB (L)	56	***	(Not used)
7	0	CUE/REV/SS (L)	57	<u>-</u>	PG SHIFTER
8		(Not used)	58	Ö	AMP
9	0	LOADING MOTOR REVERSE (H)	59	ŏ	AMP SW
10	0	LOADING MOTOR FORWARD (H)	60		AMP -
11		(Not used)	61		AMP +
12		(Not used)	62	 	CAP FG
13	•••	(Not used)	63	- 6	CAP FG
14	1	I I'C SERIAL DATA	64	Ť	I CAP FG
15	ò	IPC SERIAL DATA	65		GND
16	-	SERIAL CLOCK	66		CYL PG/FG
17	Ť	SERIAL DATA 0	67	-	V-REF 1
18		SERIAL DATA 1	68	1	V-REF 2
19		RESET		•	TPZ
		GND	69		
20			70		CONTROL PULSE (-)
21	0	HEAD SW	71	1/0	CONTROL PULSE (+)
22	<u> </u>	V-LOCK PULSE	72		VOD
23	0	CAP PHASE ERROR	73		CTL AMP
24	0	CAP SPEED ERROR	74	•••	GND
25	0	CYL PHASE ERROR	75	0	PB CTL PULSE
26	0	CYL SPEED ERROR	76		V-SYNC
27	**-	(Not used)	77	_	SAFETY TAB BROKEN (H)
28		(Not used)	78		GND
29		(Not used)	79	•••	GND
30	•••	(Not used)	80		GND
31	***	(Not used)	81	- 1	SUPPLY PHOTO TR (L)
32	•••	GND	82		TAKEUP PHOTO TR (L)
33		OSC 1	83		SUPPLY REEL PULSE
34	0	OSC 2	84	- 1	TAKEUP REEL PULSE/SERVICE (
35	***	VDD	85	. 1 .	ENVELOPE VOLTAGE
36	***	(Not used)	86	***	GND
37	0	VIDEO DELAY REC (H)	87	1	BLACK VIDEO DETECT
38		(Not used)	88	- 1	BLACK AUDIO DETECT
39	0	Hi-Fi HEAD SW	89		(Not used)
40	0	H-ROLL ACCELERATION	90		(Not used)
41	0	FORCED ACCELERATION	91		(Not used)
42	0	CAP REV(H)/STOP(M)/FWD(L)	92	- 1	PB EQUALIZER (L)
43	0	CAP TORQUE LIMIT	93	1	REC EQUALIZER (L)
44		(Not used)	94	i	MODE SW POSITION C
45		(Not used)	95	Ť	MODE SW POSITION B
46	- 1	P8 Hi-Fi AUDIO	96	Ť	MODE SW POSITION A
47		(Not used)	97	ö	ROTARY SW
48	0	+12V POWER ON (L)	98	ŏ	HEAD AMP SW
49	Ö	IPC SERIAL CLOCK	99	Ť	ENVELOPE DET
50		(Not used)	100	!	(Not used)

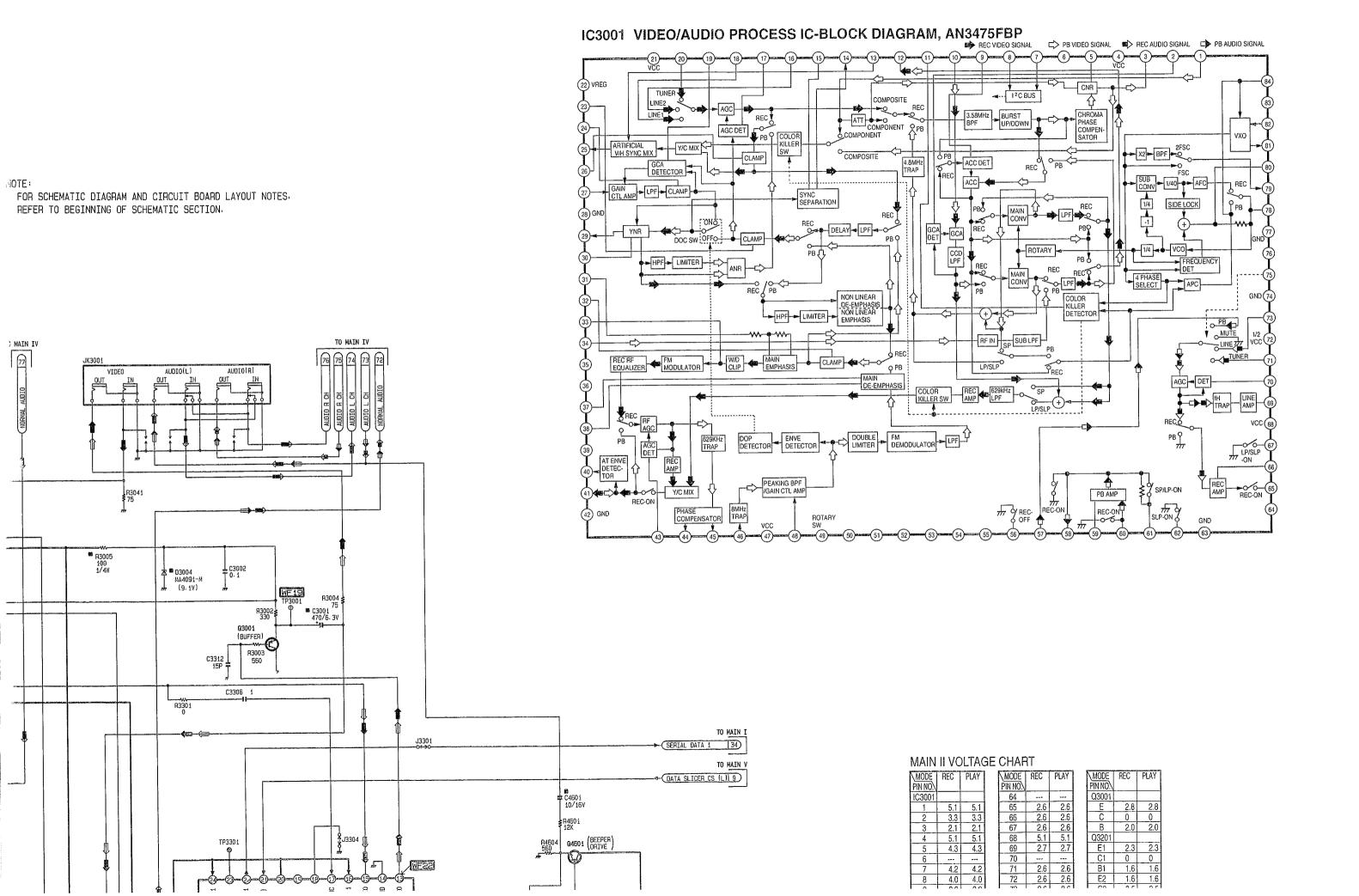
MAIN I VOLTAGE CHART

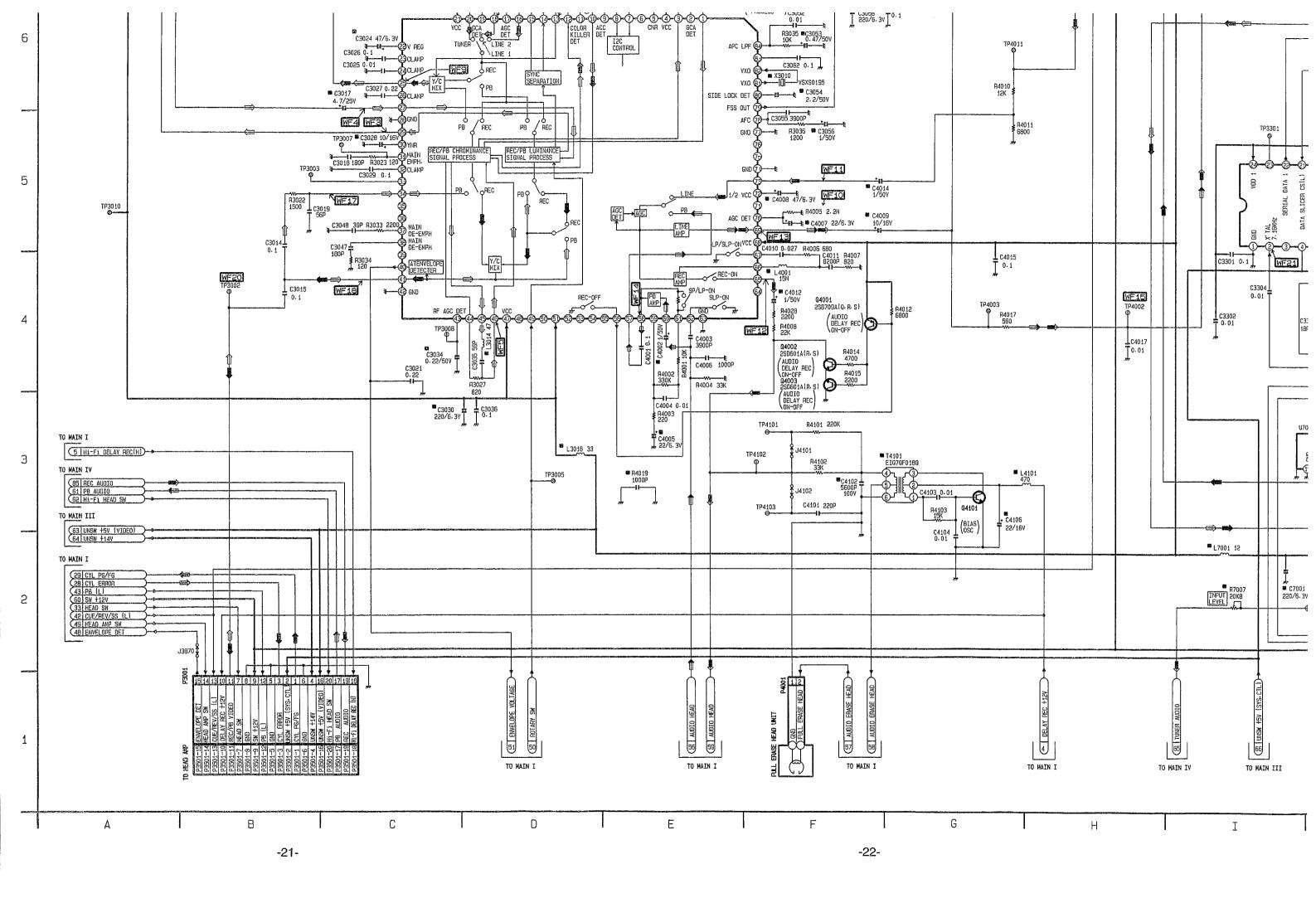
MODE PIN NO.	STOP	REC	PLAY	FF	REW		MODE PIN NO.\	STOP	REC	PLAY	FF	REW
IC6001							81	5.1	5.1	5.1	5.1	5.1
1							82	5.1	5.1	5.1	5.1	
				***			83		5.1		5.1	5.1
3								5.1		5.1		5.1
							84	0.2	0.2	0.2	0.2	0.2
4			•••				85	3.7	3.7	5.1	3.7	3.7
5	0.2	0.2	0.2	0.2	0.2		86	0	0	0	0	0
6	5.1	5.1	0.1	5.1	5.1		87	5.2	5.2	5.2	5.2	5.2
7	5.1	5.1	5.1	5.1	5.1		88	5.2	5.2	5.2	5.2	5.2
8					;		89	0	0	0	0	0
9	0	0	0	Ô	0		90	0	0	0	0	0
10	0	0	0	0	0		91	0	0	0	0	0
11					;		92	5.0	5.0	5.0	5.0	5.0
12							93	1.4	1.4	1.4	1.4	1.4
13					***		94	5.2	5.2	5.2	5.2	5.2
14	3.9	3.9	3.9	3.9	3.9		95	0.1	5.2	5.2	5.2	5.2
15	3.9	3.9	3.9	3.9	3.9		96	5.1	0.1	0.1	0.1	0.1
16	4.5	4.5	4.5	4.5	4.5		97	2.6	2.6	2.6	2.6	2.6
17	5.1	5.1	5.1	5.1	5.1		98	0.1	0.1	0.1	0.1	0.1
18	4.7	4.7	4.7	4.7	4.7		99	0.2	0.2	0.2	0.2	0.2
19	5.1	5.1	5.1	5.1	5.1		100	0	0	0	0	0
20	0	0	0	0	0		IC6002					
21	2.6	2.6	2.6	2.6	2.6		1	1.3	1.3	1.3	1.3	1.3
22	0.1	0.1	0.1	0.1	0.1	١.	2	0	0	0	0	n

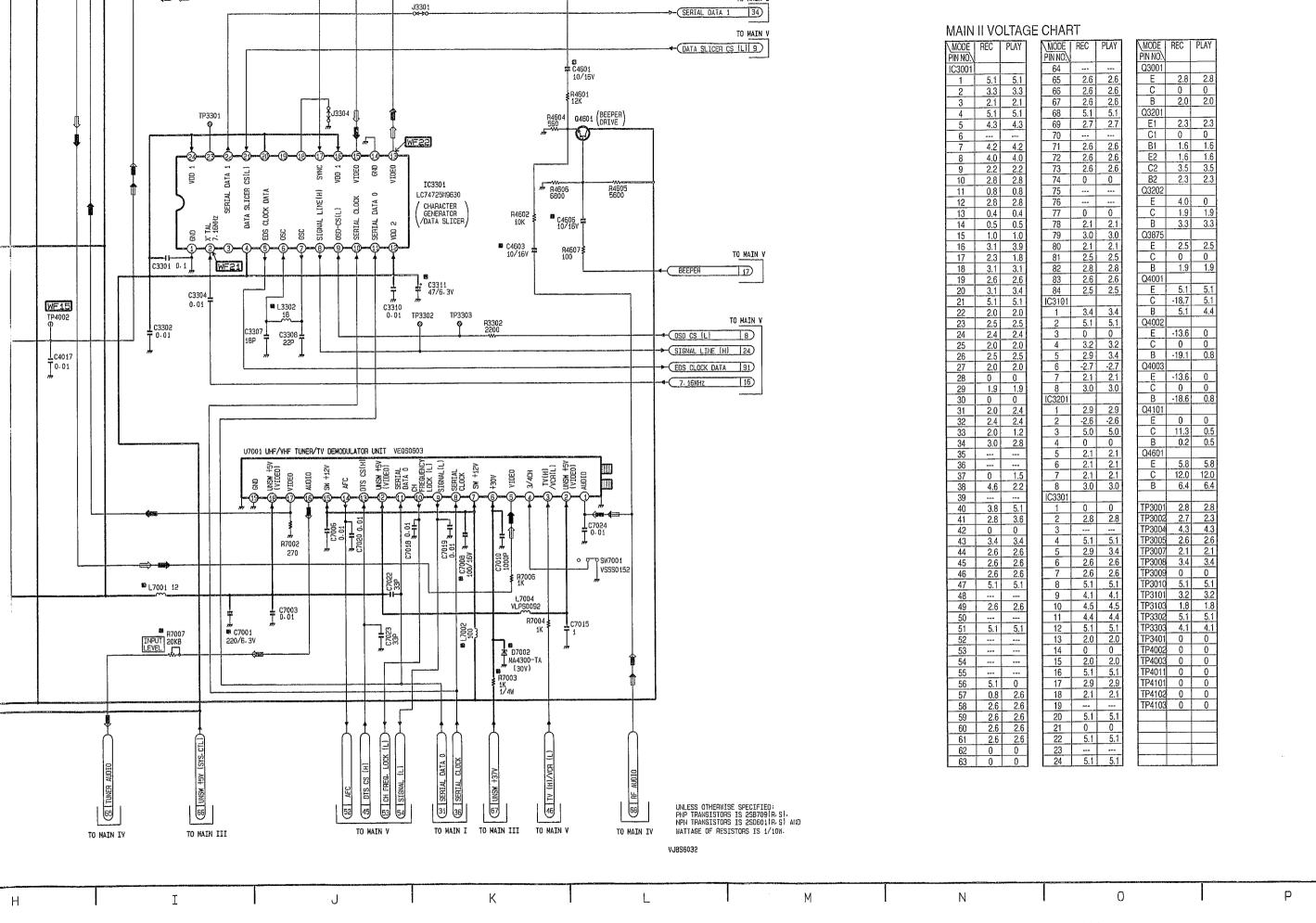


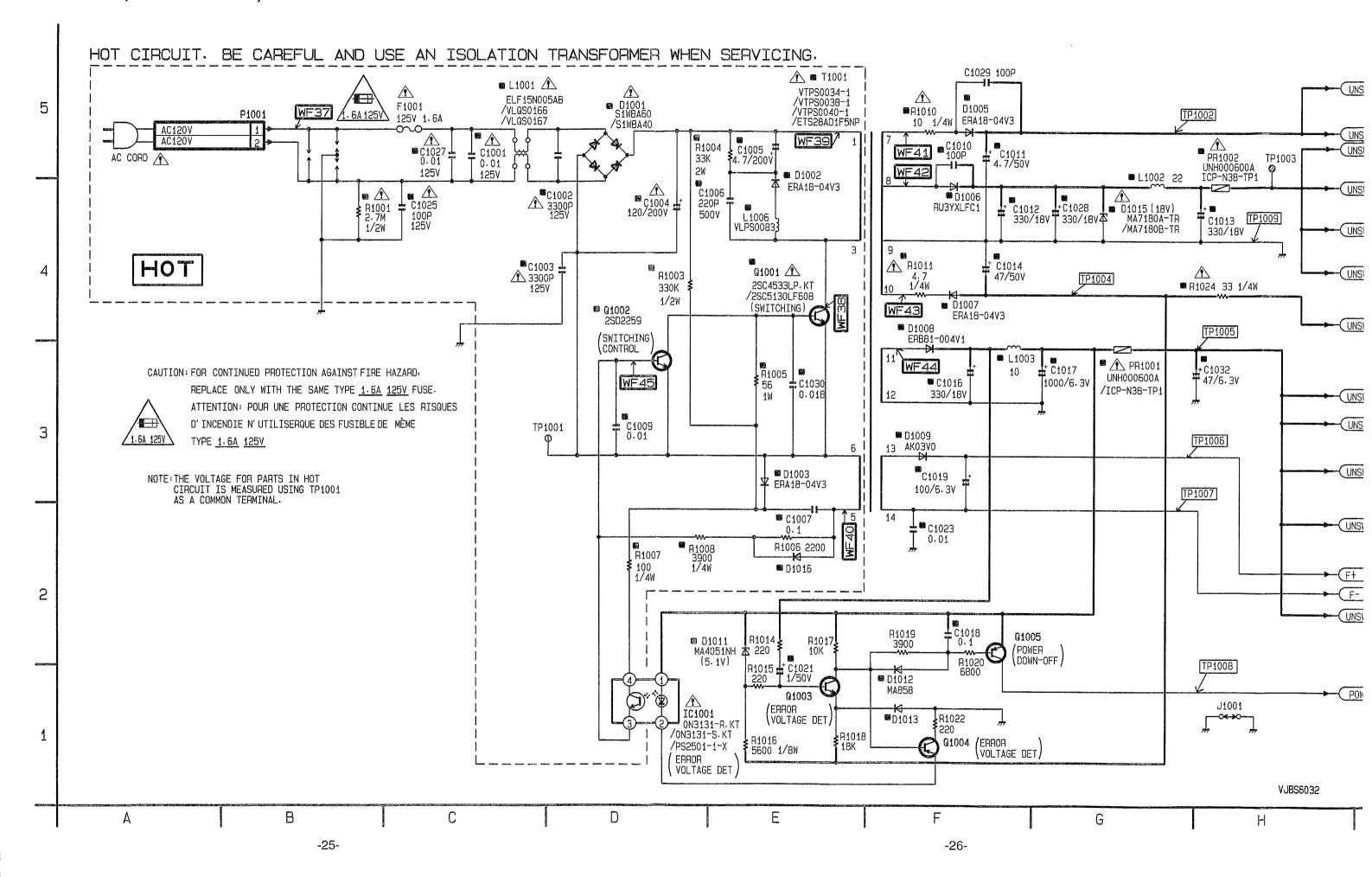


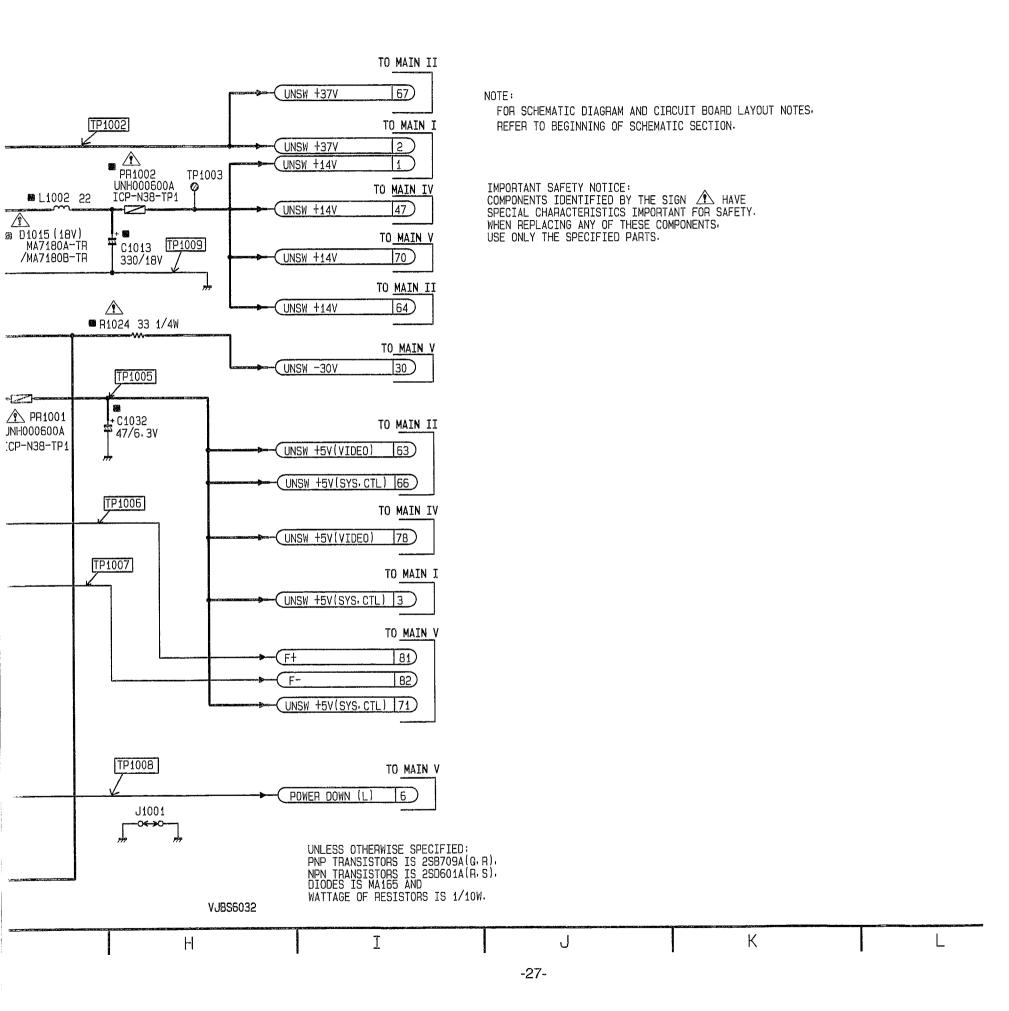










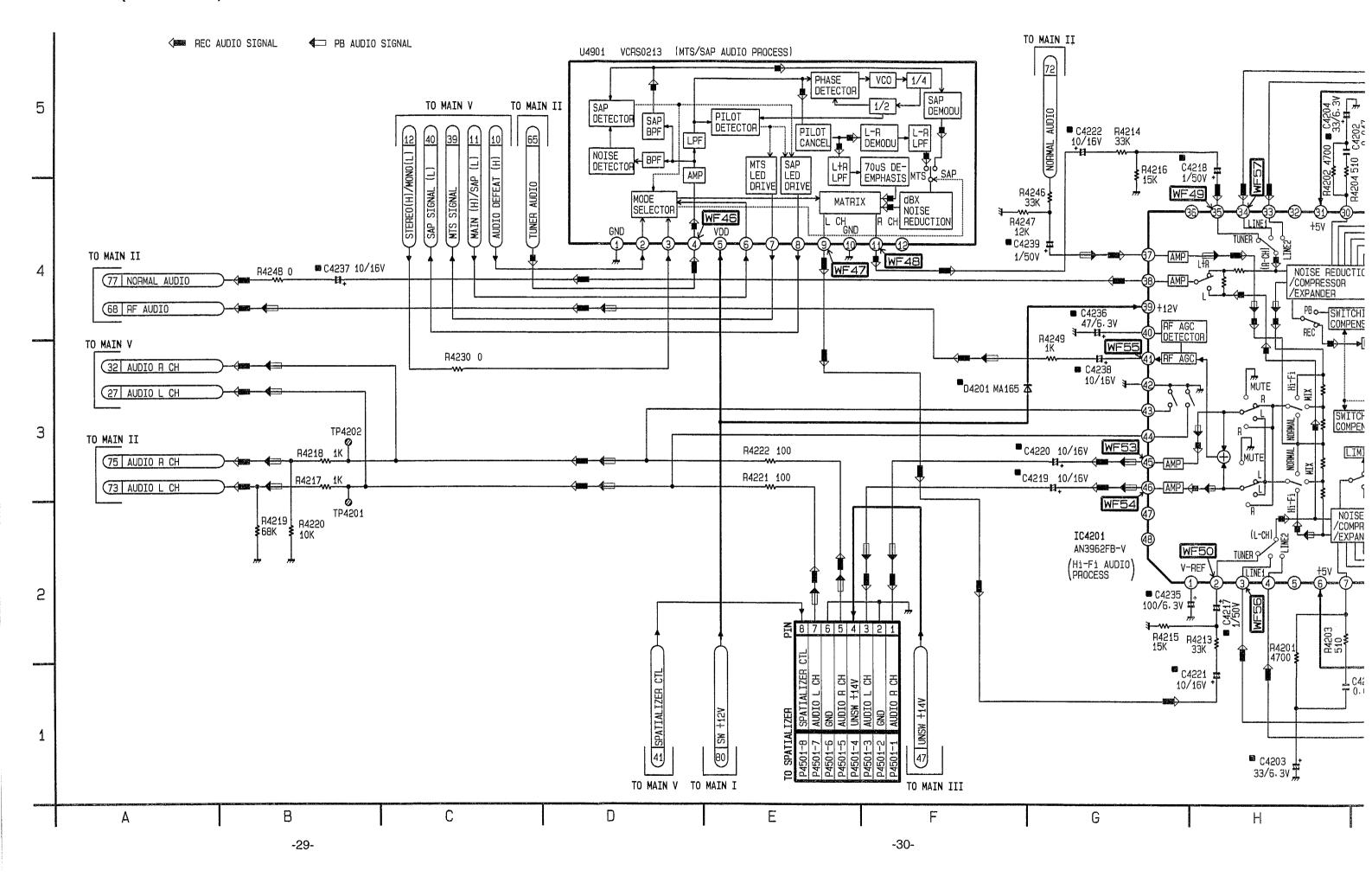


MAIN III VOLTAGE CHART

MODE PLAY PLAY
C1001
1 5.1 5.1 2 4.4 4.4 3 -54.0 -54.0 4 -53.8 -53.8 Q1001
1 5.1 5.1 2 4.4 4.4 3 -54.0 -54.0 4 -53.8 -53.8 Q1001 F 0 0
2 4.4 4.4 3 -54.0 -54.0 4 -53.8 -53.8 Q1001 F 0 0
1 - 1 () 1 ()
1 - 1 () 1 ()
1 - 1 () 1 ()
1 - 1 () 1 ()
C 133.5 133.5 B 0.3 0.3 Q1002
B 0.3 0.3 0.3 0.1 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6
Q1002 E 0 0 C 0.3 0.3 B 0.6 0.6 Q1003 E -0.6 -0.6
E 0 0 C 0.3 0.3 B 0.6 0.6 Q1003 E -0.6 -0.6
C 0.3 0.3 B 0.6 0.6 Q1003 E -0.6 -0.6
B 0.6 0.6 Q1003 E -0.6 -0.6
Q1003 E -0.6 -0.6
E -0.6 -0.6
C 4.1 4.1
B 0 0
Q1004
E 4.4 4.4
E 4.4 4.4 C 0.1 0.1
B 4.1 4.1
Q1005
E 5.1 5.1 C 5.2 5.2
E 5.1 5.1 C 5.2 5.2
B 4.7 4.7
HP10011 0 1 0
TP1002 36.5 36.5
TP1003 13.5 13.5
TP1004L-30.0L-30.0
TP1005 0 0 TP1006 -18.9 -18.9
TP1006 -18.9 -18.9
TP1007 -24.2 -24.2
TP1008 5.1 5.1
TP1009 0 0

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MAIN IV (Hi-Fi AUDIO) SCHEMATIC DIAGRAM

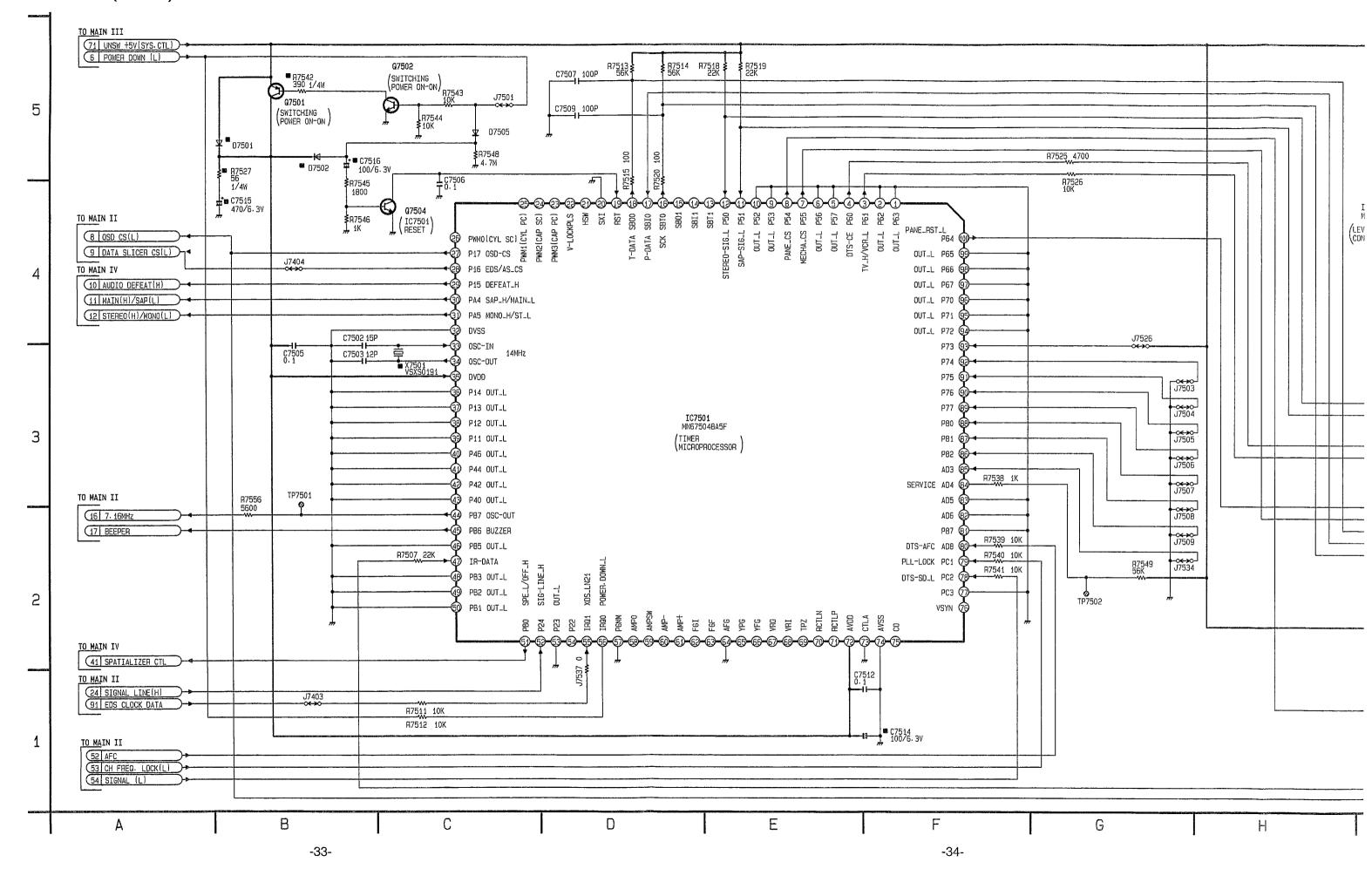


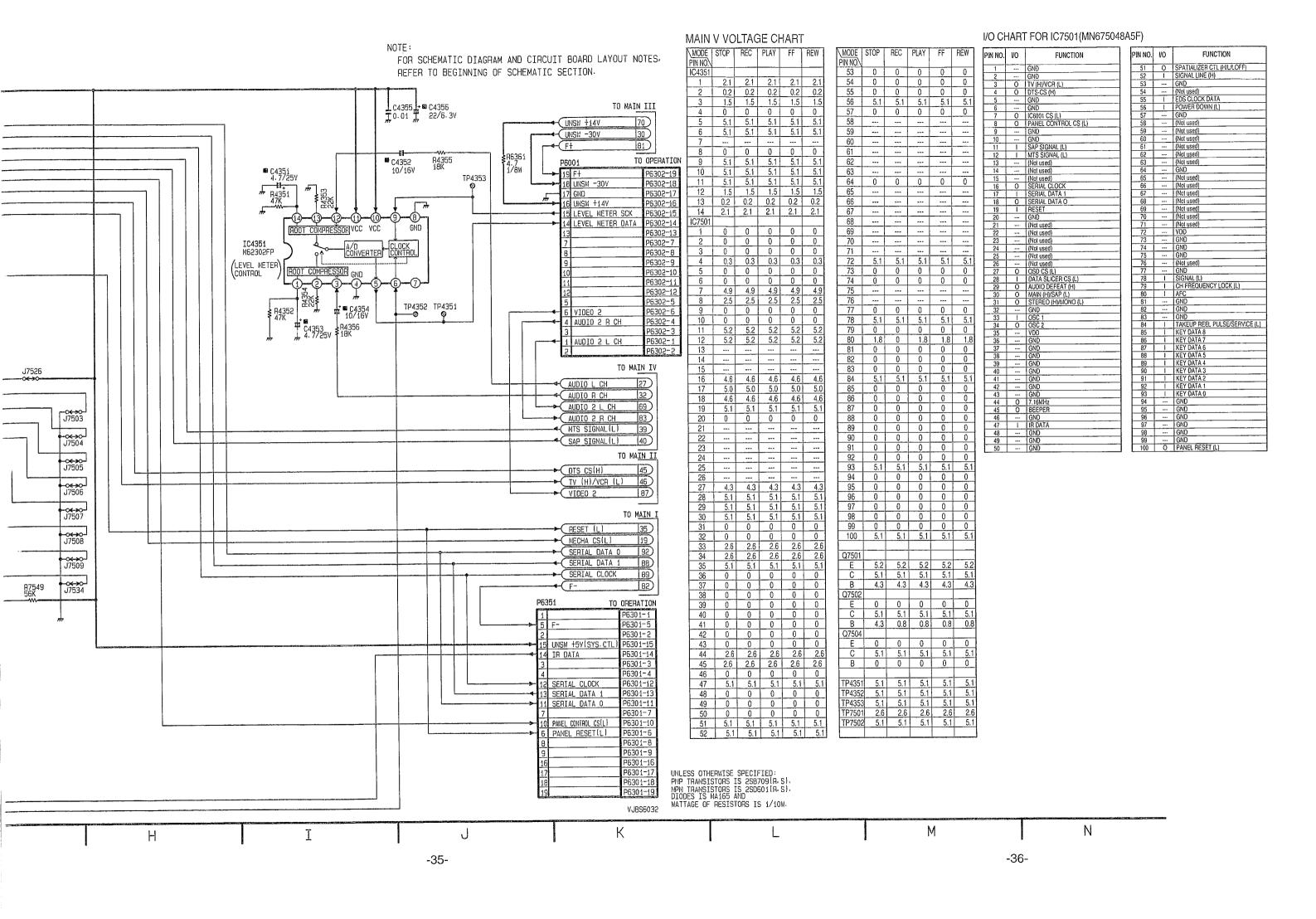
NOTE: FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES. REFER TO BEGINNING OF SCHEMATIC SECTION. C4216 R4210 TO MAIN V 1/500 AUDIO 2 R CH ₹ R4212 15K C4208 R4214 33K C4210 C4212 0.01 R4204 510 C4 R4208 C4218 1/50V + 15K TO MAIN II MAIN IV VOLTAGE CHART R4216 TP4204 C4214 ₹ 15K 1/507 R4206 33K MODE REC PLAY MODE REC PLAY WF49 AUDIO R CH 76) TP4207 PIN NO. PIN NO. PB AUDIO 61) Θ-IC4201 34 2.6 2.6 15V 2.6 2.6 35 2.6 2.6 2 2.6 2.6 36 37 TO MAIN I 2.6 3 2.6 2.6 2.6 (PB Hi-Fi AUDIO (H) 18) 4 2.6 2.6 38 2.6 2.6 NOISE REDUCTION /COMPRESSOR /EXPANDER 39 11.3 11.3 (AUDIO MUTE (H) MUTE(H) 0.5 6.2 0.5 6.2 REC LPF 40 J4210 C4240 0.22 2.6 2.6 41 PB - SWITCHING NOISE R4243 TO MAIN III 42 0 PB LPF 8 2.6 2.6 0 1500 COMPENSATOR 9 43 0 0 0 0 T78) 1/4W (UNSW +5V(VIDEO) 10 2.6 44 0 2.6 0 -55 LIMITER ØTP4205 C4242 0.01 R4244 1500 11 45 6.2 6.2 2.6 2.6 LIMITER 12 46 6.2 6.2 2.6 2.6 13 47 2.6 2.6 5V **}**⊢ ---MUTE GND DETECTOR 14 48 ---THOLD 15 2.6 2.6 TP4201 0 0 SWITCHING NOISE COMPENSATOR TO MAIN I TIMING 16 4.2 4.2 0 0 TP4202 WF52 17 4.0 4.0 TP4203 0 0 (I2C SERIAL DATA 38) MUTE 18 0 0 TP4204 0 0 R4245 LIMITER BUS 19 2.7 2.7 2.6 2.6 TP4205 I2C SERIAL CLOCK 22 20 2.6 2.6 2.7 2.7 TP4206 REC C4244 0 R4234 0 R4226 0 21 0 0 Hi-Fi HEAD SW 15) TP4207 0 0 1. 3MHz PB ᇲ BPF 22 0 0 ~ REC -54 23 0 0 NOISE REDUCTION TO MAIN II 24 R4241 15K WF51 /COMPRESSOR /EXPANDER 25 0 0 R4240 0 (L-CH) TP4205 Hi-Fi HEAD SW 26 2.6 2.6 7B-V 27 2.6 2.6 REC AUDIO [85] DIO/ V-REF 28 LINEL 0 0 | 100/6.3V 4209 0.015 29 1.6 1.6 **©** C4215 R4209 TO MAIN V ■ C4235]. 100/6.3V = 2.7 30 2.7 1/50V 33K 31 0.1 0.1 69 (AUDIO 2 L CH **≱** R4211 **≸** 15K 32 ------R4215 R4213 ≸ 33 2.6 0 R4201 4700 33K C4221 C4201 0.047 TP4203 10/16V R4205 P TO MAIN II **©** C4213 1/500 33K AUDIO L CH 74) ₹ R4207 15K Ø C4203 33/6.34 UNLESS OTHERWISE SPECIFIED: WATTAGE OF RESISTORS IS 1/10W. VJBS5032 М Ν Н Ι J Κ

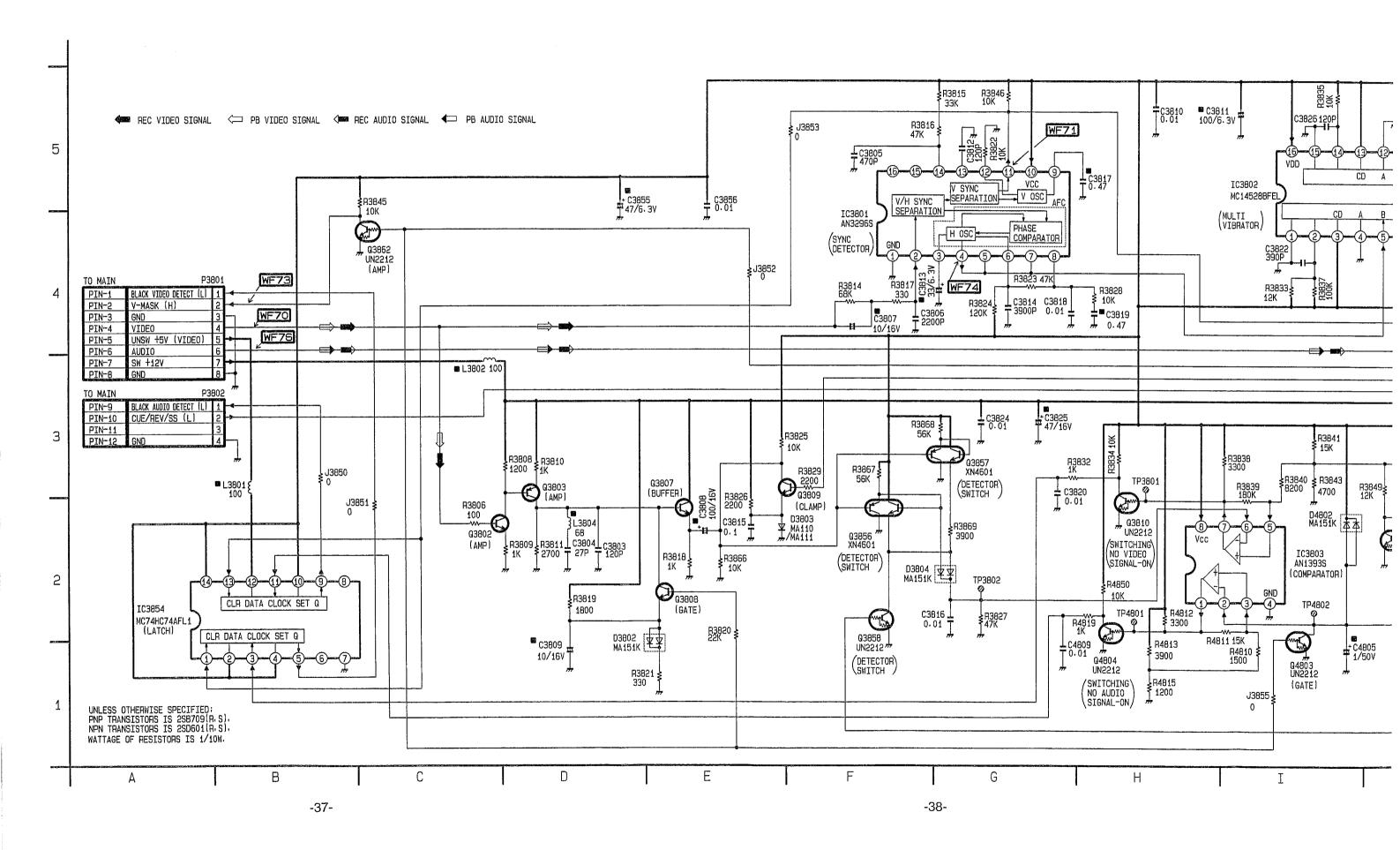
-31-

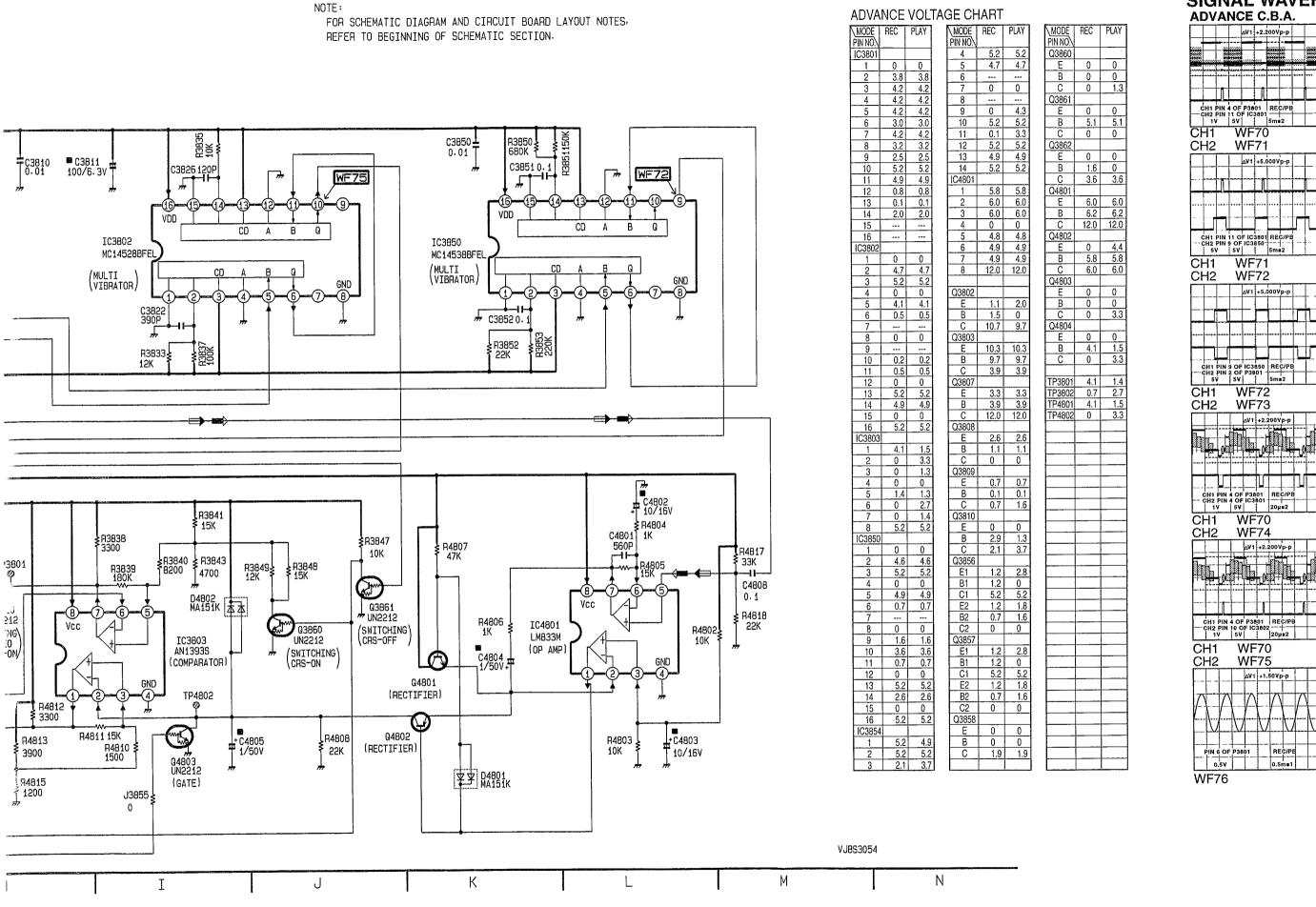
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MAIN V (TIMER) SCHEMATIC DIAGRAM



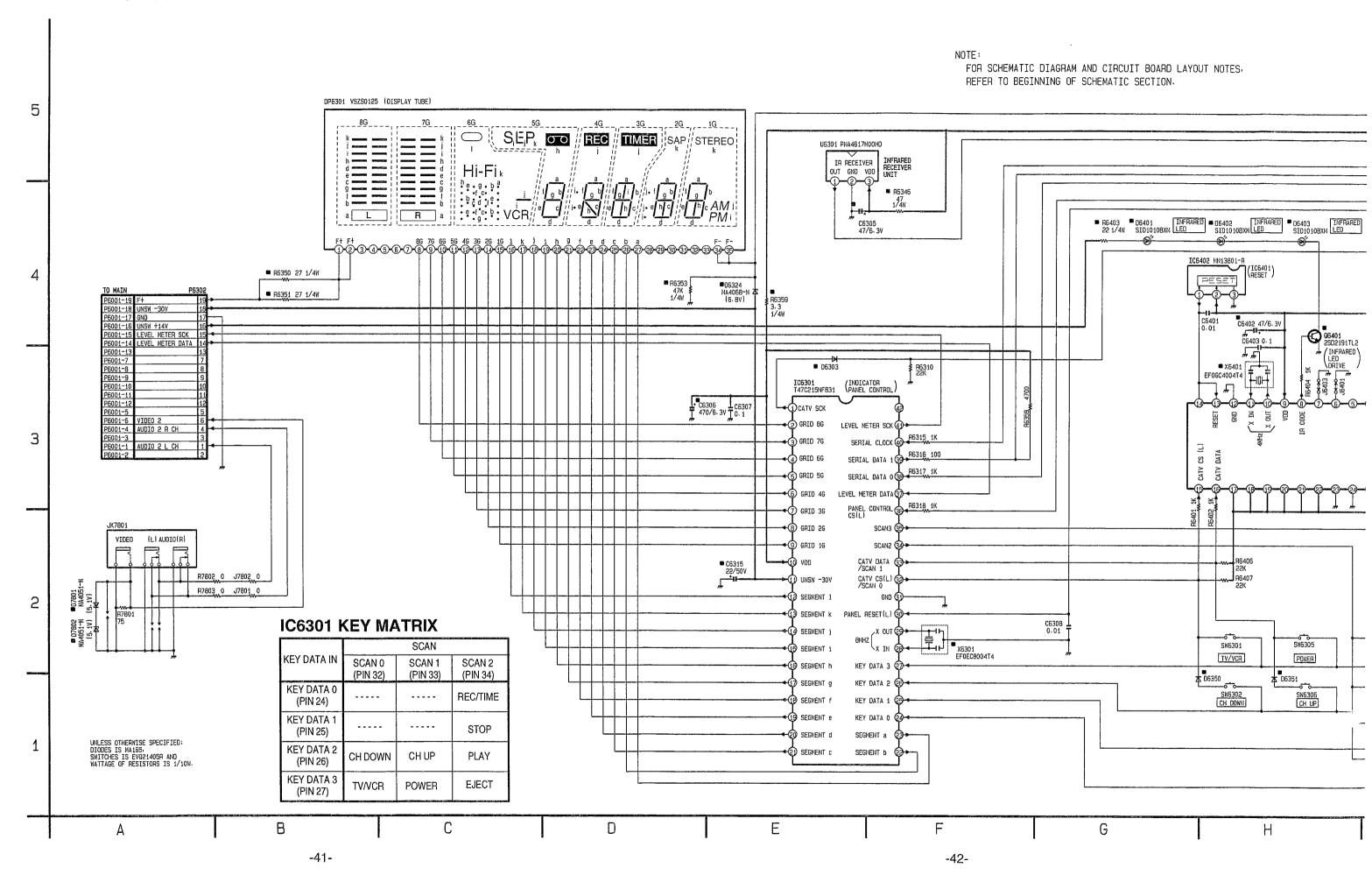


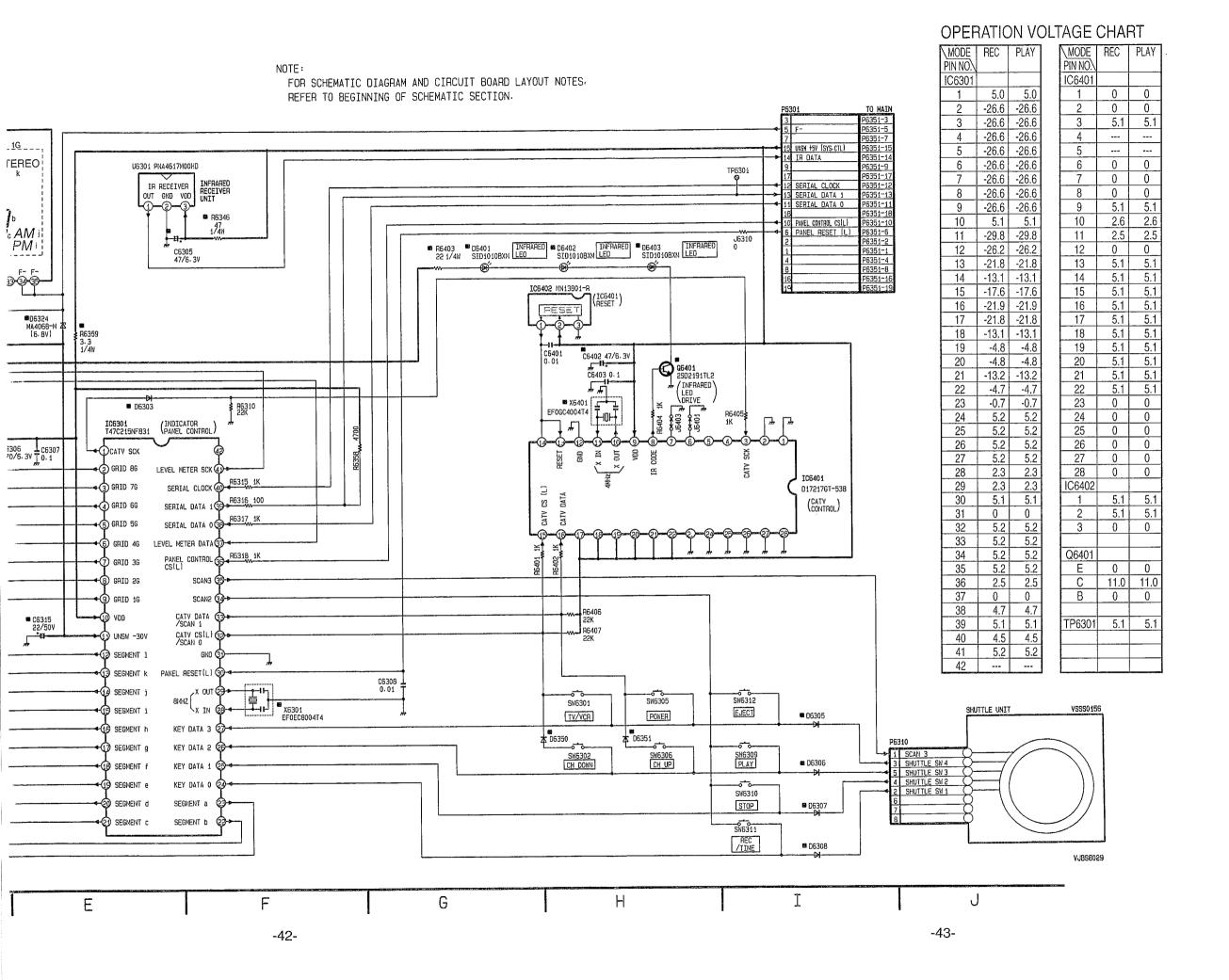


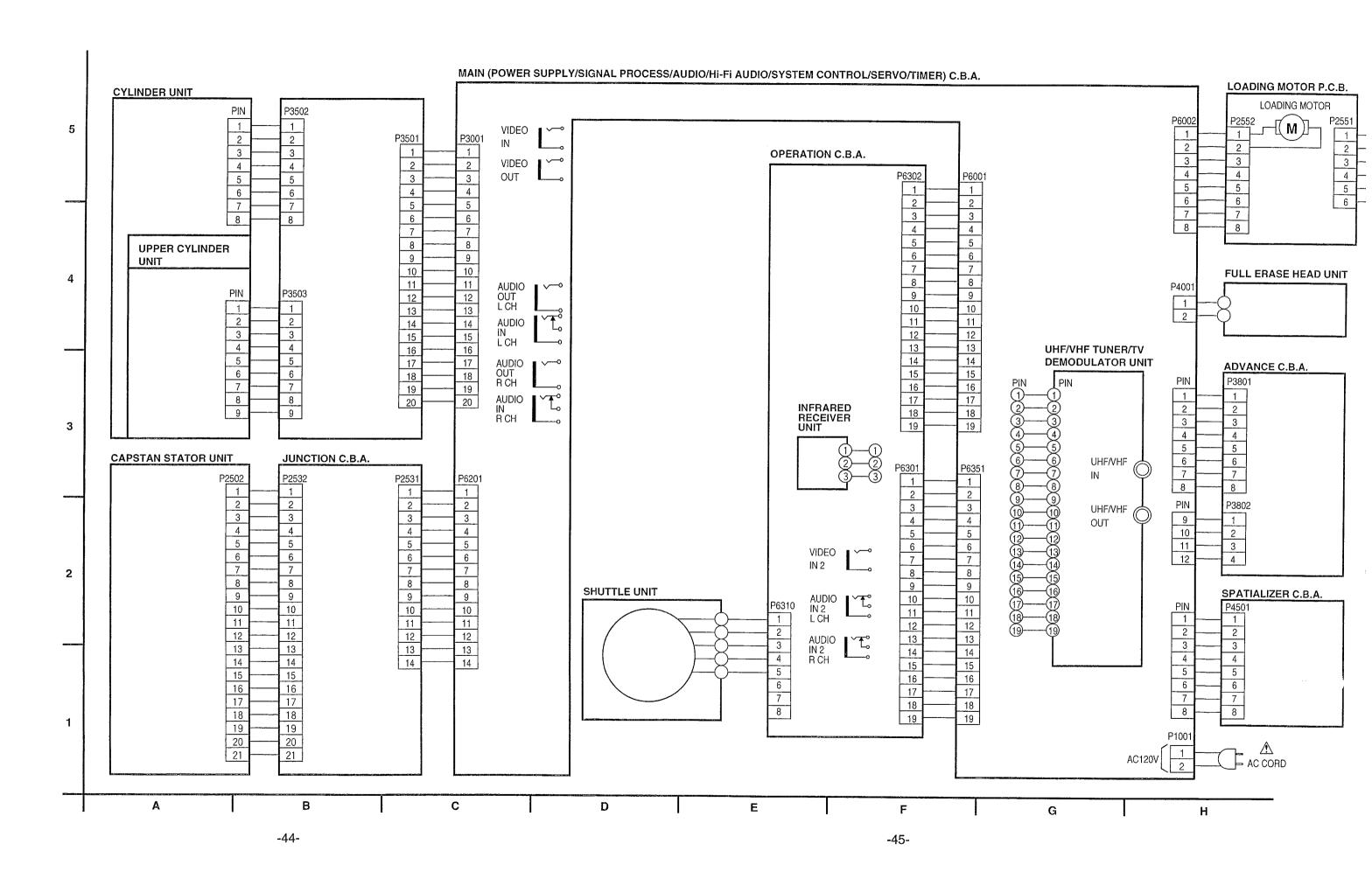


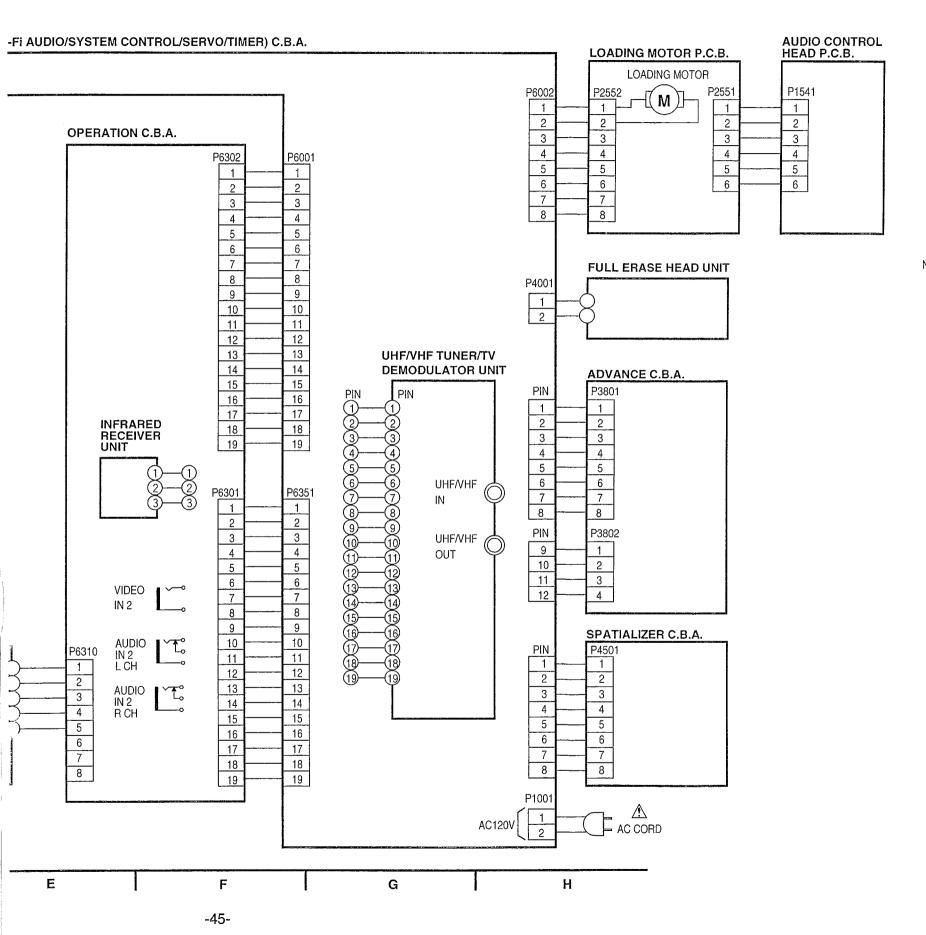
-39-

SIGNAL WAVEFORM









INTE .

FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES, REFER TO BEGINNING OF SCHEMATIC SECTION.

IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED BY THE SIGN A HAVE
SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,
USE ONLY THE SPECIFIED PARTS.

CIRCUIT BOARD LAYOUT MAIN (POWER SUPPLY/SIGNAL PROCESS/AUDIO/HI-FIAUDIO/SYSTEM CONTROL/SERVO/TIMER) C.B A VEPS6032HA HOT CIRCUIT. BE CAREFUL AND USE AN ISOLATION TRANSFORMER WHEN SERVICING DEMODULATOR UNIT VIDEO SIGNAL PROCESS SECTION HI-F! AUDIO SECTION JK3001 0 C3002 1 R3005 R3002 ₹R3002 SYSTEM CONTROL SECTION 0 SW7951 VIDEO R4220 & L CH 0 (2) R3041\$ T4101 1102 67502¥87 R7543 ₩R7542 Q1051 E C 8 8 **△**C1027 ₹ R7006 5 # O 01 \$\frac{1}{2}\frac{1 1.6A 125V C3308 J3304

12 EE T TEE C3307 TP4205

R6005 C0 T R6201 TP4202 A C1001 - O TP4283 TP3005 14101 14101 AL1001 O TP300 0 C7516-El: TP6003 TP6209 UNLOADING AND R7512 -1-C4503 R4211 P6002 ₹ R7004 R4209\$ TP6009 **O** C4601 15 19 R4205 <u></u>C1002 ₹ #¥ Ř¥ŽÍ9 ₹ R4217 *#- C6208 ## CYOOS

CYO ----- C3015 R3033 C3030 T C3035 業 Ç4233 84221 甘 C4221 WR4207 C6207 R3034 € L3014 C3019 C3013+ C1004 4 R6230
R6228 R6222
R6228 R6217

1 C6223 C6216 C6217
R6230 C6228 R6213

1 C6223 C6216 C6217
R6200 R6203 D6204

1 C6228 R6213
R6230 R6202

1 C6228 R6223
R6223 C6212 C6213
R6223 C6222 C6213
R6223 C6222 C6203
R6223 C6209
R6230 C6209
R6230 C6209 TP4202 7P3003⊘ R3022 C3014-4 HOT R6053 € HODE SELECT ©320 -|-cions #cions C3028-H- C3029 TP3007 R3023 ₹ R6052 C7019# T R1004 103001 16313 16309 -tj. C4237 C70101 16038 C4209 R6085 01602 E C B 3 2 2 R1006 A 1C1001 1C4211 R4234 400€ R400€ R6987 C4244 R1003 ₹ R4247 十 中 ••• H6216 06201 ••• H621 c4<u>qii</u>3 J7404 ICB001 14001 C3038 ---- R3029 1/1 C3032 R4240 R4245 C42144 7 C4216 R4208 # R4248 ₹ C4206 # \$ R4212 C7022 13 1007 C4009 # 14005 C4007# \$ ₩ C3037 \$ \$ R6062 R6064\$ R6063 0 176010 C4212---R4011\$ # C4014 P4001 R6014 € TP4003(7) C42081 C4202 WR4204 # R4010 ₹ C3057 144 AA 1 R4243-W- R4244 C3106 C3101 C3017 C7006 19 R6210 R6012 0 1P6014 TP6004 \ ₹ R4214 C1028 情 C6202 肯 C6201 TP401 C7**00**6 ∰ C7001 O DIODA \$ \$ULOUIT O Q6010 TAKEUP PHOTO TR 1 TP6005 8 5 1 4 C32012 0 C182E2 3L7801 D1007本 R6001 -- VV--C3203 C3202 C1016 - 月。 C1029 +1- \bigcirc Ø TP6011 C1014 TP1007 L7002 11-51-25 02587 - CM& 02587 - CM& 02587 - CM& 03587 - CM& 03587 - CM& 03587 - CM& D600 J6001 R7007 T \$R4605 \$R4604 12 LEVEL 中: C4222 R6033 C1023 191003 Ø [2 1 0 3 4 63 0 3 4 0 1+14V1 APR1002 ₹ R4230 ICGO 03 SUPPLY R7511 - \$ () 1P7501 ‡ OFF C7503 IC7501 P6351 C4356 4 R4356 \$ \$ R4355 C750G-1- 17 25 2 C4352 TP6007 SAFETY TAB SW ₩^R7549 C4353 7 AT R4352 IC4351 R7519 R4359 R4354 R7514\$ R7518\$ 7<u>†1</u> C4354 R7526 \$ \$ A7525 A7565 THER SECTION O 9 5 8 A -47-VJB56032 -48FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES.
REFER TO BEGINNING OF SCHEMATIC SECTION.

IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED BY THE SIGN A HAVE

SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.

WHEN REPLACING ANY OF THESE COMPONENTS.

USE ONLY THE SPECIFIED PARTS.

MAI	N	
TRANSISTOR		
Q1001	F-11	
Q1002	F-11	
Q1003	C-10	
Q1004	C-10	
Q1005	C-10	
Q1051	H-6	
Q1052	H-5	
Q3001	H-4	
Q3002	F-3	
Q3010	G-5	
Q3201	D-2	
Q3202	D-3	
Q3870	G-5	
Q3875	H-3 F-6	
Q4001	G-5	
Q4002 Q4003	G-6	
Q4003 Q4101	H-7	
Q4101 Q4601	C-4	
Q4001 Q6002	D-6	
Q6002 Q6003	D-0 D-7	
Q6009	D-2	
Q6010	D-9	
Q7501	H-9	
Q7502	H-9	
Q7504	A-5	

MAI	N
[(5
IC1001	F-10
IC3001	F-4
IC3101	D-3
IC3201	D-4
IC3301	H-4
IC4201	F-2
IC4351	A-4
IC6001	F-7
IC6002	B-7
IC6003	B-4
IC7501	A-6

MA	MAIN			
CONNECTOR				
P1001	H-11			
P3001	G-5			
P4001	E-3			
P6001	A-2			
P6002	G-7			
P6201	E-9			
P6351	A-8			

MAIN		
ADJUSTMENT		
R3204	D-1	
R3205	C-2	
R6201	H-8	
R7007	C-1	

MAI	N		MA	IN
TEST POINT			TEST	POINT
TP1001	F-10		TP4203	H-2
TP1002	C-11		TP4204	H-2
TP1003	B-11		TP4205	H-4
TP1004	C-10		TP4206	E-2
TP1005	C-11		TP4207	H-3
TP1006	D-10		TP4351	A-3
TP1007	C-10		TP4352	B-10
TP1008	B-10		TP4353	A-3
TP1009	C-11		TP6001	G-8
TP1058	H-5		TP6002	B-4
TP3001	H-4		TP6003	G-5
TP3002	G-3		TP6004	D-2
TP3003	G-4		TP6005	D-9
TP3004	H-3		TP6007	A-4
TP3005	H-5		TP6008	H-9
TP3006	G-5		TP6009	G-9
TP3007	F-4		TP6010	E-6
TP3008	G-5		TP6011	D-5
TP3009	H-3		TP6013	E-6
TP3010	F-4		TP6014	E-6
TP3101	D-3		TP6201	E-7
TP3102	D-4		TP6202	E-7
TP3103	E-3		TP6203	F-7
TP3301	H-5		TP6204	F-7
TP3302	G-5		TP6205	G-3
TP3303	H-5		TP6206	F-7
TP3401	B-3		TP6207	H-8
TP4002	H-2		TP6208	E-7
TP4003	E-5		TP6209	G-8
TP4011	D-4		TP6210	F-7
TP4101	H-7		TP7401	A-10
TP4102	H-7	'	TP7402	A-11
TP4103	H-8		TP7403	A-11
TP4201	G-2		TP7501	B-5
TP4202	G-1		TP7502	A-7

LEADLESS COMPONENT PARTS LOCATION GUIDE MAIN C.B.A. Q1003 C-10 R4002 G-5 R4601 G-2 R6221 D-8 C3052 E-4 C6008 E-8 R6222 E-7 C3055 E-5 C6009 E-7 Q1052 H-5 R4003 F-5 R4602 H-2 Q3001 H-4 R4004 F-5 R4604 C-4 R6223 F-6 C3057 E-4 C6203 D-7 Q3201 D-2 R4005 E-5 R4605 C-4 R6224 F-6 C3062 F-5 C6204 D-7 C3102 D-3 C6205 D-7 Q3202 D-3 R4006 F-5 R4606 C-4 R6228 F-7 Q3875 H-3 R4007 E-5 R4607 C-5 R6230 G-7 C3104 D-3 C6206 D-7 Q4001 F-6 R4008 G-6 R6004 G-4 R6361 B-9 C3105 D-3 C6211 F-6 Q4002 G-5 R4010 E-5 R6005 G-4 R7002 D-1 C3106 E-4 C6212 F-6 Q4003 G-6 R4011 E-5 R6006 C-6 R7004 G-1 C3108 D-4 C6213 F-6 Q4101 H-7 R4012 F-6 R6012 D-6 R7006 H-1 C3201 D-4 C6214 F-7 Q4601 C-4 R4014 G-6 R6014 E-6 R7507 B-5 C3203 D-4 C6216 F-7 Q6002 C-8 R4015 G-6 R6021 E-6 R7511 B-6 C3205 D-4 C6217 F-7 Q6003 D-7 R4017 B-1 R7512 G-9 C3206 D-4 C6222 F-7 R6025 E-8 Q7501 H-9 R4028 F-5 R7513 A-5 C3207 D-4 C6223 F-7 R6026 E-8 Q7502 H-9 R4101 H-7 R6029 E-8 R7514 A-5 C3208 D-4 C6228 F-7 Q7504 A-5 R4102 H-7 R6030 E-8 R7515 A-5 C3210 D-4 C7003 E-1 R1006 F-11 R4103 H-7 R6048 F-8 R7518 A-5 C3211 E-4 C7006 E-1 R1014 C-11 R4201 F-3 R6049 G-8 R7519 A-5 C3213 C-2 C7010 F-1 C3214 D-3 C7015 H-1 R1015 C-10 R4202 E-2 R6051 F-8 R7520 A-5 R1016 C-10 R4203 F-3 R6052 F-8 R7525 A-6 C3215 C-2 C7018 F-1 R7526 A-6 R1017 C-10 R4204 E-2 R6053 G-8 C3216 D-3 C7019 F-1 R1018 C-11 R4205 G-2 R6058 G-8 R7538 A-6 C3217 D-3 C7020 D-1 R1019 C-10 R4206 F-1 R6062 E-8 R7539 A-7 C3218 D-3 C7022 E-1 R1020 B-10 R4207 G-2 R6063 E-8 R7540 A-7 C3301 H-5 C7023 E-1 C7024 H-1 R1022 C-10 R4208 E-1 R6064 E-8 R7541 A-7 C3302 H-5 R1051 H-5 R4209 G-1 R6066 G-8 R7543 H-9 C3304 H-5 C7502 B-5 R3002 H-4 R4210 E-2 R6069 G-8 R7544 H-9 C3306 H-4 C7503 B-5 R3003 H-4 R4211 G-3 R6070 G-8 R7545 A-5 C3307 H-4 C7505 B-5 C3308 H-4 C7506 A-5 R3004 H-2 R4212 E-2 R6073 G-8 R7546 A-5 R3021 E-4 R4213 G-2 R6075 G-8 R7548 H-9 C3310 H-4 C7507 A-5 R4214 D-1 R6077 D-8 R7549 A-7 C3312 H-4 C7509 A-5 R3022 G-4 R3023 F-3 R4215 F-2 R6085 F-8 R7556 B-5 C4001 G-5 C7512 B-6 C4003 F-5 L7004 G-1 R3027 G-5 R4216 E-1 R6086 F-8 C1010 E-10 R3029 E-3 R4217 G-2 R6087 F-8 C1029 C-11 C4004 G-5 R3030 E-4 R4218 H-2 R6088 E-8 C3002 H-4 C4006 F-5 R4219 G-2 R6093 E-6 C3011 E-4 C4010 F-5 R3033 G-4 R4220 H-3 R6097 E-6 C3014 G-3 C4011 F-5 R3034 G-3 R4221 G-2 R6098 F-6 C3015 G-4 C4015 F-5 R3035 F-4 R4222 G-2 R6102 E-8 C3018 G-3 C4017 B-1 R4226 F-3 R6202 F-6 C3019 G-4 R3036 E-5 C4101 G-8 R3041 H-3 R4230 B-2 R6203 E-6 C3021 G-4 C4103 H-7 R3202 D-4 R4234 F-3 R6204 G-6 C3022 F-4 C4104 H-7 C3025 F-4 R4240 E-3 R6205 E-6 C4201 F-3 R3206 C-2 C3026 F-4 C4202 E-2 R3207 D-3 R4241 F-2 R6206 D-6 R3208 C-2 R4244 E-2 R6207 D-7 C3027 F-4 C4209 F-3 R6208 E-7 C3029 F-3 R3209 D-2 R4245 E-3 C4210 E-2 R3210 D-3 R4246 F-1 R6209 E-7 C3035 G-5 C4211 F-3 R3211 D-3 R4247 F-1 R6210 D-6 C3036 G-4 C4212 E-2 C3039 F-4 R3212 D-3 R4248 E-1 R6211 F-6 C4240 F-2 R3213 D-3 R4249 F-1 R6212 E-6 C3043 E-4 C4242 E-3 B3214 D-3 B4351 A-4 R6213 F-6 C3044 F-4 C4244 F-3 R4352 A-4 R3301 H-4 R6214 D-7 C3045 F-4 C6002 E-7

-49-

R3302 H-5

R3874 G-3

R3875 H-3

R4353 A-4

R4354 A-4

R4355 A-4

R4001 F-5 R4356 A-4

R6215 E-7

R6216 F-6

R6218 D-7

C3047 G-3

C3048 G-3

C3049 E-4

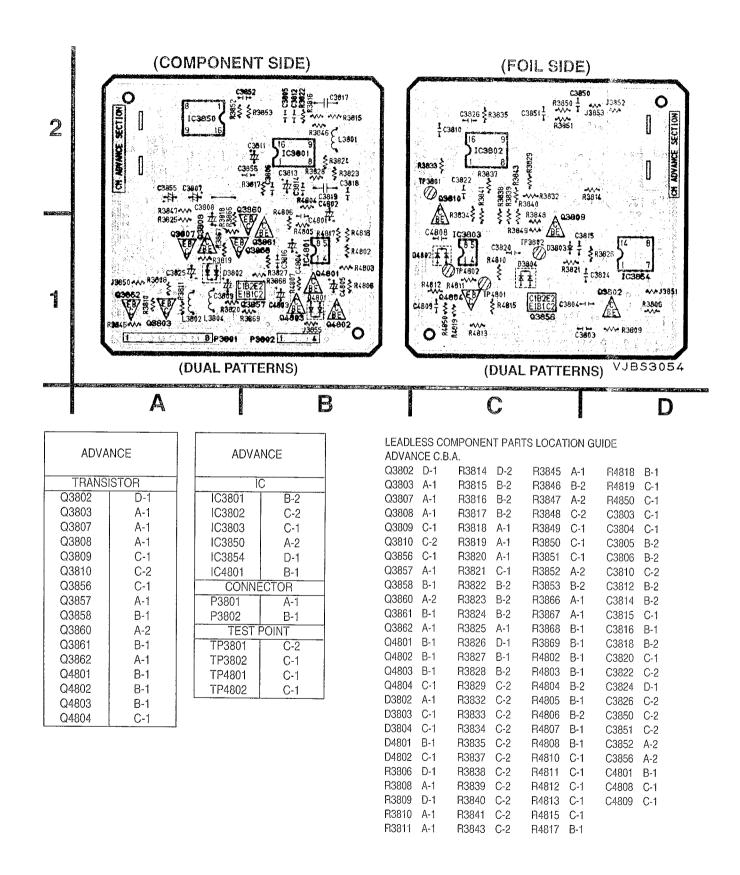
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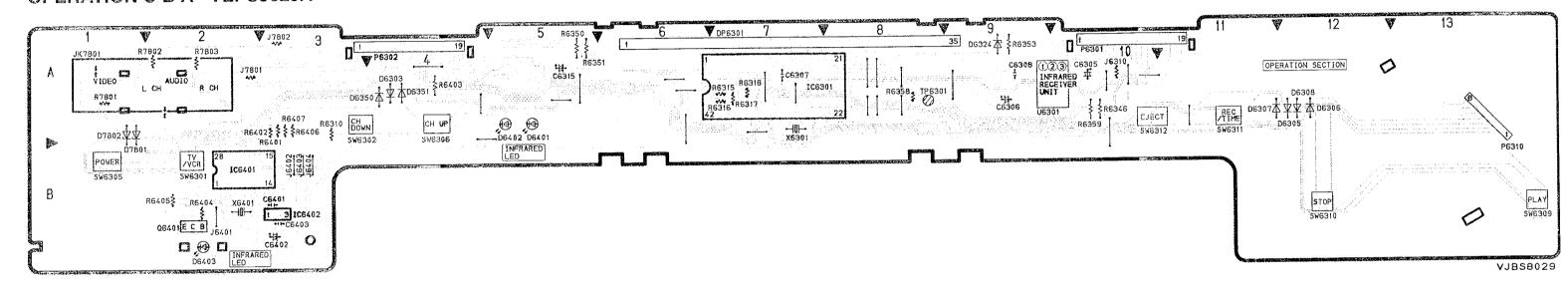
C6006 E-7

C6007 D-8



NOTE:
FOR SCHEMATIC DIAGRAM AND CIRCUIT BOARD LAYOUT NOTES,
REFER TO BEGINNING OF SCHEMATIC SECTION.

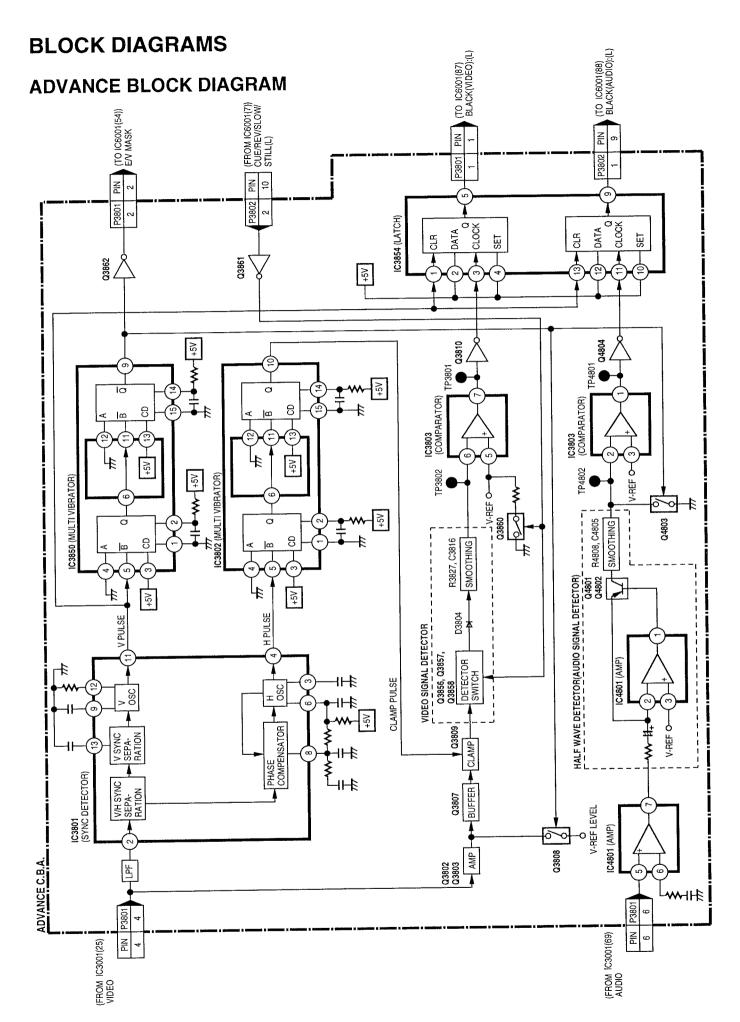
OPERATION C B A VEPS8029A



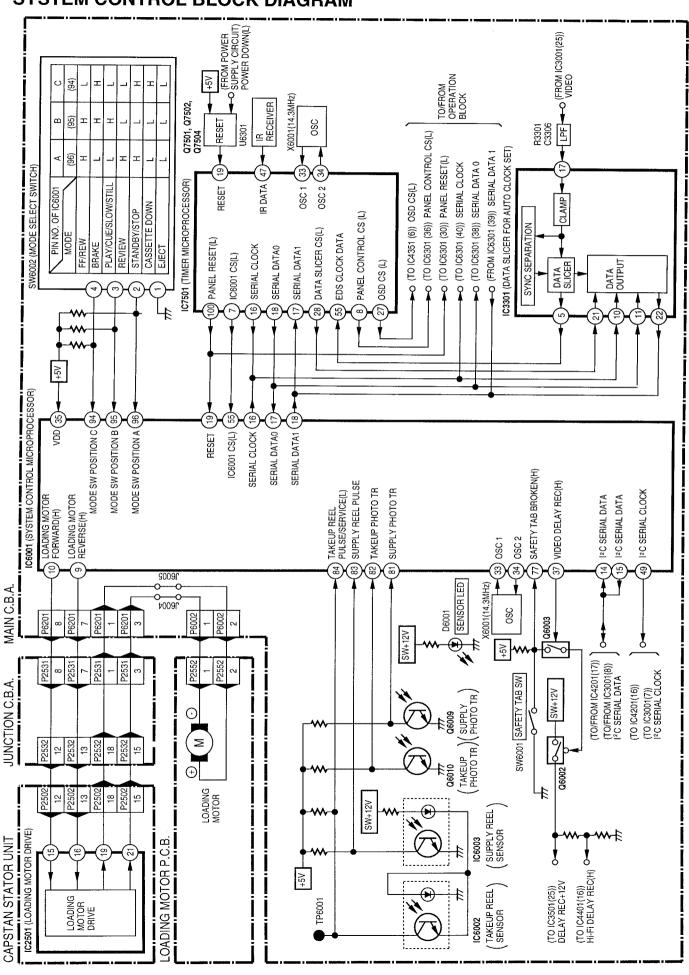
OPER.	ATION		
10	0		
IC6301	A-7		
IC6401	B-2		
IC6402	B-3		
TRANSISTOR			
Q6401 B-2			
CONNECTOR			
P6301	A-10		
P6302	A-4		
P6310	B-13		
TEST POINT			
TP6301	A-8		

LEADLESS COMPONENT PARTS LOCATION GUIDE

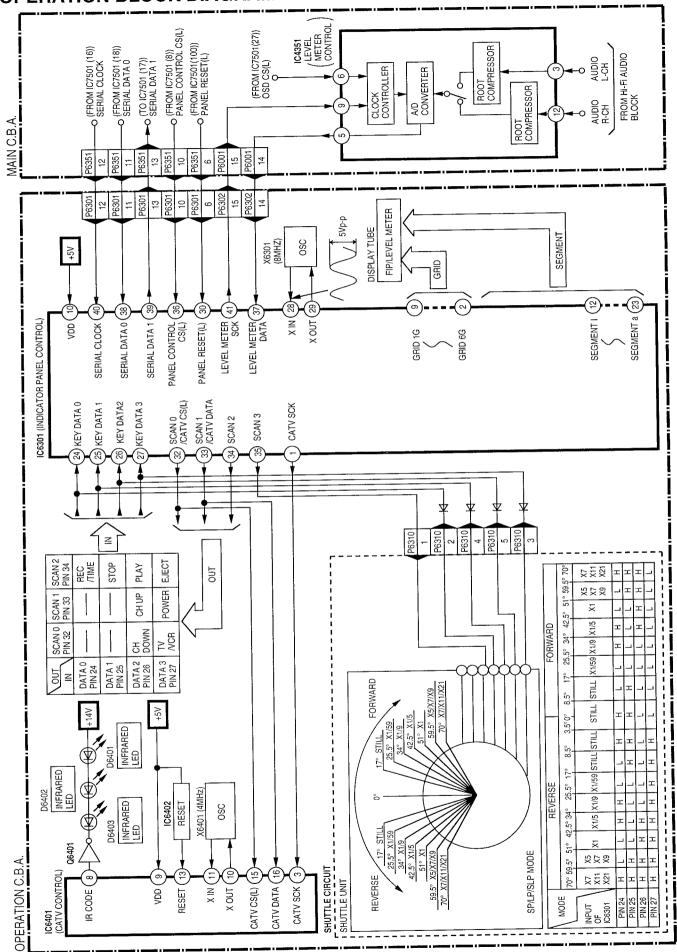
OPERA	TION (C.B.A.		
R6310	A-3	R6406	A-3	
R6315	A-7	R6407	A-3	
R6316	A-7	R7801	A-1	
R6317	A-7	R7802	A-1	
R6318	A-7	R7803	A-2	
R6358	A-8	C6307	A-7	
R6401	B-3	C6308	A-1	
R6402	A-2	C6401	B-3	
R6404	B-2	C6403	B-3	
R6405	B-2			



SYSTEM CONTROL BLOCK DIAGRAM



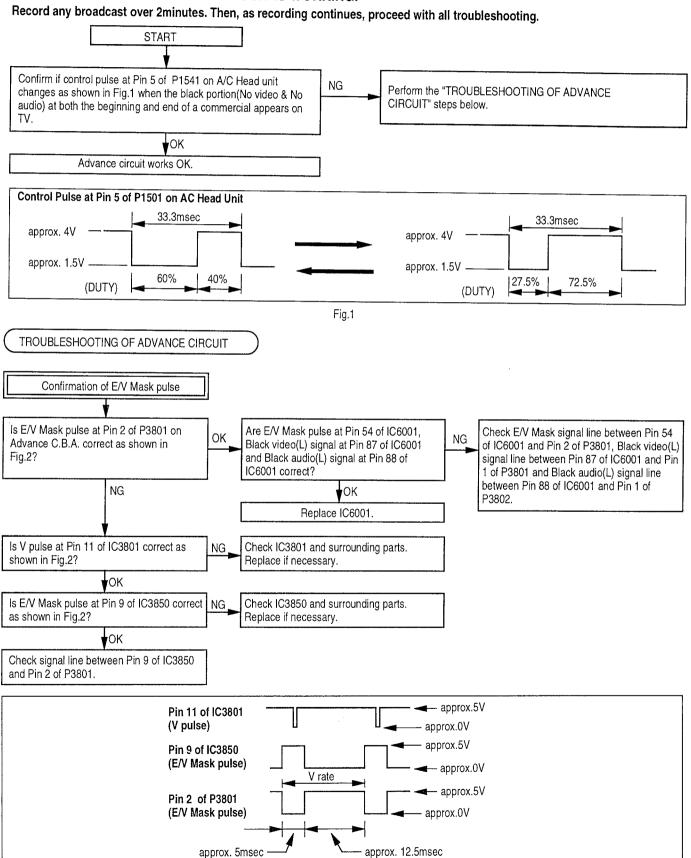
OPERATION BLOCK DIAGRAM

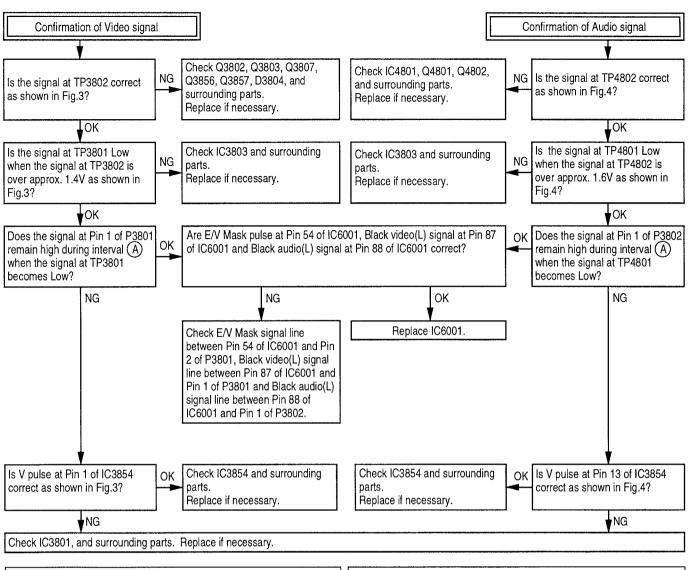


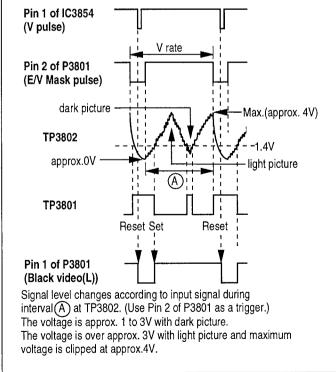
TROUBLESHOOTING HINTS

Advance Section

HOW TO CONFIRM IF ADVANCE CIRCUIT IS WORKING.







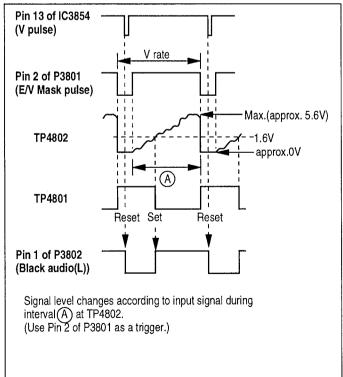


Fig.3 Fig.4

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